1994
VOLUME 2

PART NUMBER INDEX/GUIDE ALTERNATE SOURCES

IC MASTER

- Abbreviations of Company Names
- Part Number Guide
- Part Number Index
- Alternate Source Directory

VOLUME 1
Selection Guides & Function Index

VOLUME 3
Advertisers Technical Data

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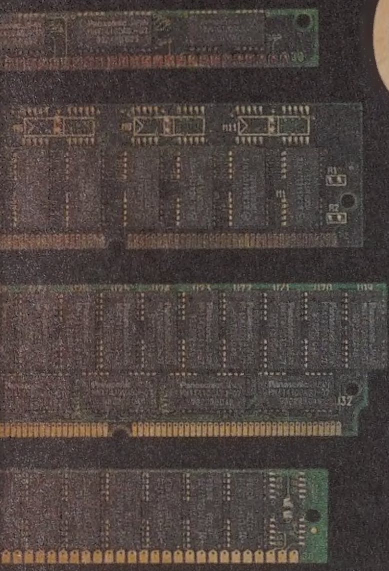

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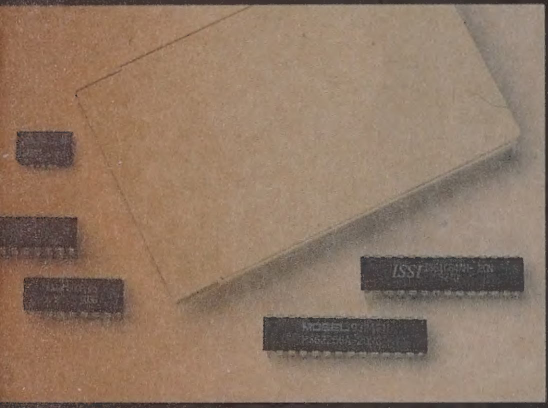

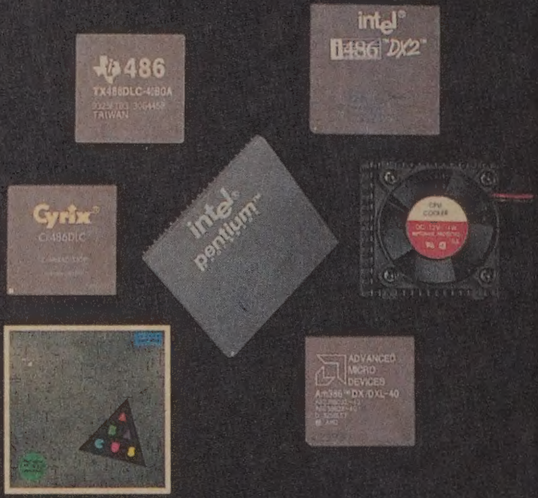
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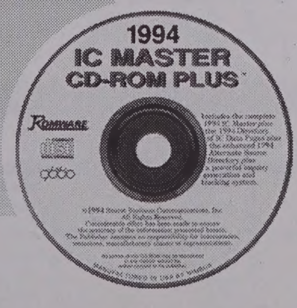
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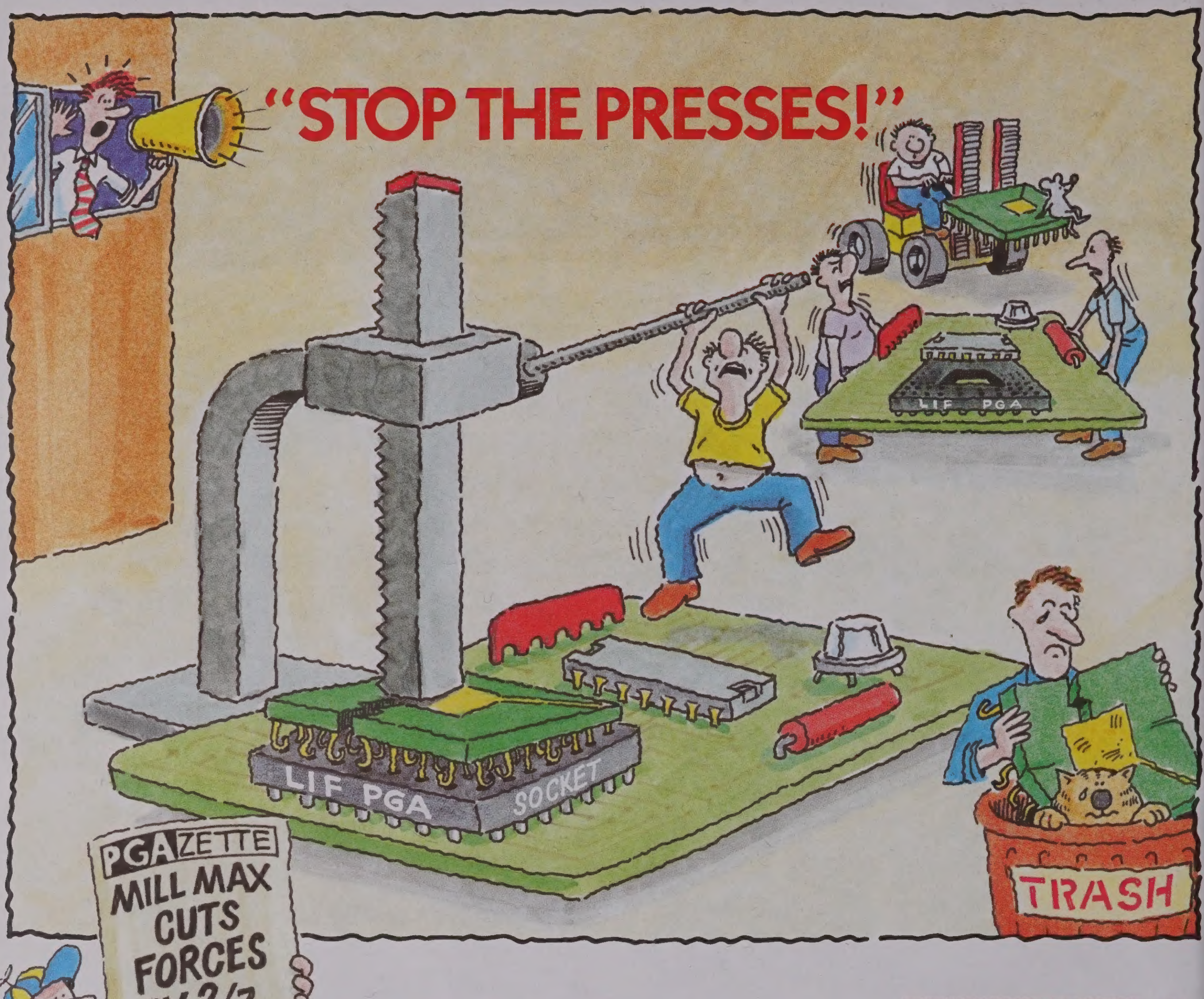

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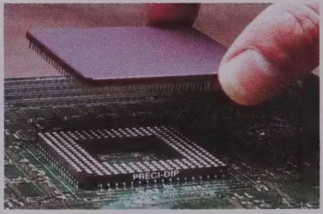

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HOW TO USE THE IC MASTER

The 1994 edition of the IC MASTER is arranged in three volumes. Each volume serves a specific purpose to help you find the integrated circuit or related product you need. The table of contents on the preceding page describes what is in each volume. The table of contents for Volume 3 also gives the starting page numbers for advertisers' data pages.

The IC MASTER is a functional work. You know what you need. The MASTER helps you find it.

Here are typical problems.

Q. What kinds of functions does the MASTER cover?
A. Turn to page 10 in Volume One. Here is a functional index for the devices covered. The page and line numbers refer you to the exact location within a Section in which a particular function appears.

Q. Who makes a 16K x 1 static RAM with an access time of 70 ns or faster? What are my technology choices?
A. Turn to the MEMORY section, in Volume 1. The first page of the section tells you where the listings of your device begin.
Turn to Static RAMs — General Purpose, and browse through the pages until you reach the 16K x 1 listings. Now look through the listings until you find the access time and characteristics you need. Device numbers are shown by manufacturer. The device numbers of advertisers in the 1994 IC MASTER appear in bold face. The page number following the device number is where additional information may be found in Volume Three. At the extreme right you will see line numbers. These are the specific lines where a device appears.

Q. Which microprocessors are listed in the MASTER? How do I find the microprocessor I need?
A. All commercially available microprocessors are listed in the MASTER. Start with the **microprocessor** listing in the **Master Selection Guide Function Index** (starts on page 10). Here you will find CISC, RISC and Microcontrollers listed according to clock rate. Turn to the various pages shown and then to the advertisers' page where more information may be available.

Q. Who makes a Dual, Low Offset Voltage Op Amp?	A. This is a **LINEAR** device. Turn to the LINEAR section in Volume One. The first page of the section shows the starting page for each category. Turn to the page where Dual Units appear. Look down the list for the device you need. Advertisers' devices are listed in bold face. Turn to the page in Volume Three where more information may be available.
Q. I need an IC with Music capability. Which Master Selection Guide should I use?	A. Turn to the **Master Selection Guide Function Index** starting on page 10. Look through the list until you find **Music.** The page numbers for each kind of device are shown.
Q. I am looking for an application note on a specific device. Where can I find out if one is currently available?	A. Pick up Volume Three. Turn to the Application Note Directory. Here you will find application notes arranged by **function**. Find the function involved and turn to the page where the note is listed.
Q. We need a device that meets MIL standards. Where do I look in the MASTER?	A. Turn to the MILITARY section in Volume Three. The first part lists manufacturers and screening levels available. The second part is a functional index. The last two sections provide cross references from commercial to military and military to commercial part numbers.
Q. I know the basic part number is 2502 and that's all I know. Where do I look?	A. Go to the Part Number Index in Volume 2. All prefixes and suffixes have been stripped away. Turn to the page where 2502 appears. All manufacturers with that base number appear in order along with the full part number and the page and line number where the device is described.
Q. How many manufacturers claim to make a pin-for-pin and function-for-function equivalent to a Motorola MC68000?	A. Turn to the Alternate Source Directory in the back of Volume Two. Turn to Motorola's listings. Those manufacturers who claim to have equivalent parts are listed in order. If you have an IBM or compatible computer with a hard drive, you can get the 1994 IC MASTER **Alternate Source Directory** on a disk. This disk provides the complete list of alternate sources and allows you to add your own part numbers, as well as notes such as prices or sources. Call Hearst (516) 227-1300 and ask for Book Sales for further information.

Q. I looked in the Alternate Source Directory. The part I want an alternate source for isn't listed. Why not?	A. Are you sure you looked through the entire listing for the original manufacturer? Some devices may be listed in odd ways depending on how the MASTER's editors receive the information. Then there is the probability that no other manufacturer makes an exact replacement for your part. It is important for you to understand how the Alternate Source Directory is compiled. Manufacturers supply the information that **their** part is an exact replacement for **another** part. The original manufacturer does **not** tell us his part can be replaced by those listed.
Q. What do the manufacturers' part numbers mean? I have a Philips NE592N. What do all the letters and numbers mean?	A. Look in Volume Two for the Part Number Guide. Turn to the Philips portion. Now you know the **N** prefix means, zero to plus seventy degrees Centigrade. The **N** suffix indicates the package style. The numbers and letters in the middle are the device type. Each manufacturer has a different code system. Understanding the systems is a great help in comparing devices.
Q. Where can I find the addresses and telephone numbers of manufacturers, local sales offices and distributors?	A. Pick up Volume Three. Turn to the Manufacturers and Distributors Directory. Within each manufacturer, sales offices and distributors are listed alphabetically by state.
Q. I just saw a new device advertised in Electronic Products magazine. It isn't listed in the MASTER. Why not? When will it be listed?	A. Preparing the information for the annual IC MASTER is a tremendous undertaking. It requires the cooperation of every single manufacturer. All of the material must be organized, cross referenced and placed in the data base. This data base must be closed off in November in order to meet the publishing date of late January. That is why some devices are not listed. They came on the market too late for the deadline. There are two updates to the annual MASTER. They are called the **IC MASTER UPDATE**. One is issued in the late Spring and the other in the early Fall. Be sure to sign up for copies when you get your new IC MASTER. If you are not sure whether or not you have requested the updates, please write to the Circulation Department at the address shown on page 2 of this MASTER. Be sure to indicate which edition of the MASTER you are using.

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ABBREVIATIONS OF COMPANY NAMES

Acculin	Acculin, Inc.
Actel	Actel Corporation
AD	Analog Devices
Adaptec	Adaptec
Adv Analog	Advanced Analog
AHA	Advanced Hardware Architectures, Inc.
AdvLinear	Advanced Linear Devices
Altera	Altera Corporation
Analog Micros	Analog Microsystems
Am Arium	American Arium
AMD	Advanced Micro Devices, Inc.
American Micro	American Microsystems, Inc.
Array Micro	Array Microsystems
Analogic	Analogic Corporation
AnalogSys	Analog Systems
AMCC	AMCC (Applied Micro Circuits Corp)
Aptek	Aptek Microsystems
AppMicroSys	Applied Microsystems Corporation
Apex	Apex Microtechnology Corporation
Aspen	Aspen Semiconductor Corp.
Astec Semi	Astec Semiconductor
AutoSys	ASI
Aspec Technlg	Aspec Technology, Inc.
ATMEL	ATMEL Corporation
AT&T	AT&T Microelectronics, 52AL330240
Avasem	Avasem Corporation
Benchmarq	Benchmarq Microelectronics
Brooktree	Brooktree Corporation
Burr-Brown	Burr-Brown Corporation
CustomArrays	Custom Arrays Corp.
Calogic	Calogic Corporation
Catalyst Semi	Catalyst Semiconductor
C&C Tech	C & C Technology Inc.
CE Infosys	CE Infosys of America, Inc.
Cermetek	Cermetek Microelectronics, Inc.
Chips&Tech	Chips and Technologies, Incorporated
Cherry Semi	Cherry Semiconductor Corporation
Cirrus	Cirrus Logic, Inc.
Comlinear	Comlinear Corporation
Catalyst Rsch	Catalyst Research
CMD Micro	California Micro Devices Corporation
Cornes USA	Cornes U.S.A. Ltd.
Crystal	Crystal Semiconductor Corp.
Commodore	Commodore Semiconductor Group
Crosspoint	Crosspoint Solutions, Inc.
ControlData	Control Data
Cybernetic	Cybernetic Micro Systems
Cypress	Cypress Semiconductor Corp.
Dallas	Dallas Semiconductor
Datel	Datel, Inc.
Data Delay	Data Delay Devices, Inc.
Dense-Pac	Dense-Pac Microsystems, Inc.
Dionics	Dionics Inc.
DSP Group	DSP Group, Inc.
Data I/O	Data I/O Corporation
ECI Semi	ECI Semiconductor
EDI	Electronic Designs Inc.
Elantec	Elantec, Inc.
Eletech	Eletech Electronics
Elite Micro	Elite Microelectronics, Inc.
EM Micro	EM Microelectronic-Marin SA
Epson	Epson America Inc.
Ericsson	Ericsson Components
ESS	Electronic Speech Systems, Inc
EXEL	EXEL Microelectronics, Inc.
Exar	Exar Corporation
Fujitsu	Fujitsu Microelectronics, Inc.
Gennum	Gennum Corporation
GET Eng	GET Engineering Corp.
Galil	Galil Motion Control
Genesis Micro	Genesis Microchip Inc.
Goal Electronic	Goal Electronics Inc.
Greenwich	Greenwich Instruments USA
GoldStar	GoldStar Technology, Inc.
Harris	Harris Corporation
Hyundai	Hyundai Electronics America
Headland	Headland
Heurikon	Heurikon Corporation
Hitachi	Hitachi America, Ltd.
HiLevel	Hilevel Technology, Inc.
Hualon Micro	Hualon Microelectronics Corp
Holt	Holt, Integrated Circuits, Inc.
Honeywell	Honeywell
HP	Hewlett-Packard-Logic Systems Division
Hughes	Hughes Aircraft Co.
IBM	International Business Machines Corporation
IC DESIGNS	IC DESIGNS
Vertex	Vertex Semiconductor Corp.
IC Sensors	IC Sensors, Inc.
ICT	International CMOS Technology
IntCirSys	Integrated Circuit Systems, Inc.
Ideal Semi	Ideal Semiconductor
IDT	Integrated Device Technology, Inc.
Int Info Tech	Integrated Information Technology, Inc.
ILC-DDC	ILC Data Device Corp.
ILSI	Integrated Logic Systems Inc.
IMI	International Microcircuits, Inc.
IMP	International Microelectronic Products
IntMeasSys	Integrated Measurement Systems
Intergraph	Intergraph
Intel	Intel Corporation
Interpoint	Interpoint Corporation
GE/Intersil	GE/Intersil
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Intronics	Intronics, Inc.
ISD	Information Storage Devices,Inc
Isocom	Isocom Incorporated
ISSI	Integrated Silicon Solution Inc.
ITC Microcomps	ITC Microcomponents Inc.
IXYS	IXYS Corporation
Krueger	Krueger Company
SemTech	Semtech Corpus Christi
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Lansdale	Lansdale Semiconductor, Inc.
LogicAuto	Logic Automation Incorporated
Lin Int Sys	Linear Integrated Systems
LSI Comp	LSI Computer Systems, Inc.
LSI Logic	LSI Logic Corporation
LSTI	Logical Solutions Technology Inc.
LinearTech	Linear Technology Corporation
Linfinity Micro	Linfinity Microelectronics
Lattice	Lattice Semiconductor Corp.
Level One	Level One

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Micropac	Micropac Industries, Inc.
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OEI	Optical Electronics Inc.
OKI	OKI Semiconductor, Inc.
OnChip Sys	OnChip Systems, Inc.
Optimum Semi	Optimum Semiconductor
Orion	Orion Instruments, Inc.
Optotek	Optotek Limited
Panasonic	Panasonic Industrial Company/Electronic Components Division
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Peps	Performance Electronic Packaging Services
Philips	Philips Semiconductors
Phylon Inc.	Phylon Inc.
GEC Plessey	GEC Plessey Semiconductors
Plus Logic	Plus Logic
PLX Tech	PLX Technology, Inc.
PMC	Pacific Microelectronics Centre
PMD	Performance Motion Devices
Power Integ	Power Integrations, Inc.
Proximity	Proximity Technology Inc.
Performance	Performance Semiconductor Corp.

QuickLogic	QuickLogic Corp
Qualcomm	Qualcomm Incorporated
Quality Semi	Quality Semiconductor
Raytheon	Raytheon Company
RCA	RCA
R&E Intl	R&E International, Inc
EG&G-Reticon	EG&G Reticon Corporation
Ricoh	Ricoh Corporation
Ramtron	Ramtron Corporation
Rockwell	Rockwell International
Rochester	Rochester Electronics Incorporated
ROHM	ROHM Corporation
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Spancom	Spancom Corporation
Sanyo	Sanyo Semiconductor Corporation
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Sony	Sony Corporation of America
Solarise	Solarise Enterprises Inc.
Sophia	Sophia Systems and Technology
Solitron	Solitron Devices, Inc.
Allegro Micro	Allegro Micro Systems, Inc.
Signal Proc	Signal Processing Technologies
Seponix	Seponix Corporation
SpaceResearch	Space Research Technology, Inc.
Star Semi	Star Semiconductor Corporation
Sunshine	Sunshine Semiconductor Inc.
SiliconSys	Silicon Systems Inc.
Stac	Stac Electronics
STC	STC Components
STEL	Stanford Telecommunications Inc.
Startech	StarTech Semiconductor, Inc.
Supertex	Supertex, Inc.
Symphony Lab	Symphony Laboratories

Synergy	Synergy Semiconductor Corporation
Systronix	Systronix. Inc.
TeledyneC	Teledyne Components
Technitrol	Technitrol, Inc.
AEG Corp	AEG Corporation-Telefunken
Tektronix	Tektronix, Inc.
ThirdDomain	Third Domain, Inc.
Thaler	Thaler Corp
Thomson Comp	Thomson Components and Tubes Corporation
TI	Texas Instruments, Inc.
TLSI	TLSI, Inc.
Teltone	Teltone Corporation
Toko	Toko America Inc.
Toshiba	Toshiba America Electronic Components, Inc.
Tracer	Tracer Electronics, Inc.
Trident Micro	Trident Microsystems Inc.
TriQuint	Tri Quint Semiconductor
TranSwitch	TranSwitch Corporation
TRWLSI	TRW LSI Products Inc.
Tseng Labs	Tseng Labs, Inc.
UMC	Unicorn Microelectronics Corp.
Unitrode	Unitrode Integrated Circuits Corp.
Unisys	Unisys Corporation
Universal	Universal Semiconductor Inc.
USAR Systems	USAR Systems, Inc.
UTMC	United Technologies Microelectronics Center
Vadem	Vadem
Vanguard Semi	Vanguard Semiconductor
Vitelic	Vitelic
VTC	VTC Inc.
VLSI Tech	VLSI Technology, Inc.
Vitesse	Vitesse Semiconductor Corp.
WDC	The Western Design Center, Inc.
White Tech	White Technology, Inc.
Waferscale	Waferscale Integration Inc.
Western	Western Digital Corporation
XECOM	XECOM, INC.
Xicor	Xicor, Inc.
Xilinx	Xilinx Corp.
Yamaha	Yamaha Systems Technology
ZAX	Zaxtek
Zilog	Zilog, Inc.
ZyMOS	ZyMOS Inc.

COMPANY ACQUISISTIONS, MERGERS & CHANGES

Former Name	**New Name**
Fairchild Semiconductor	*Now part of* National Semiconductor
Ferranti Interdesign	Custom Arrays Corporation
Gazelle Semiconductor	Triquint Semiconductor *(merged)*
GE, RCA and Intersil	*ICs available from* Harris Corporation
General Instrument Microelectronics Division	Microchip Technology
Gould AMI	American Microsystems Inc.
Harris Microwave Semiconductor	Samsung Microwave Semiconductor
Honeywell Semiconductors	Signal Processing Technologies
Hybrid Systems Corporation	Sipex Corporation *(merged)*
Inova	*No longer in business*
Integrated CMOS Systems	Vertex Semiconductor
Intersil	*See* GE
Lambda Semiconductor	*ICs available from* Semtech Corporation
Monolithic Memories, Inc. (MMI)	*Now part of* Advanced Micro Devices
Mostek Semiconductors	*Now part of* Thomson-CSF
Plus Logic	*Now part of* Xilinx
Precision Monolithics Inc. (PMI)	*Now part of* Analog Devices
RCA	*See* GE
RIFA	Ericsson Components
Scorpion	MSI/Scorpion
Silicon General	Linfinity Microsystems
Sprague Semiconductor	Allegro Microsystems
TRW LSI Products	Raytheon-LaJolla
ZAXTEK	Zax Corp.

PART NUMBER GUIDE

Each IC Manufacturer has his own special method of identifying products, usually through a system of logos, device number prefixes and suffixes. This Part Number Guide is arranged alphabetically by manufacturer and describes each company's part number system. JAN nomenclature is also covered.

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

ACTEL

Actel

Package

PG	Ceramic Pin Grid Array

Temperature Range

C	Commercial 0°C to 70°C
I	Industrial –40°C to 85°C
M	Military –55°C to 125°C
B	883B

Prefix	Device	Suffix
A	1280	-1 PG 176 C

Die Revision (Future)
Speed — -1
Package — PG
Number of Pins — 176
Application — C

ADVANCED ANALOG

Advanced Analog
a division of Intech

Temperature Range

J	0°C to 70°C
K	0°C to 70°C
S	–55°C to 125°C
T	–55°C to 125°C

Prefix	Device	Suffix
DAC	390	XD/B

Temperature Range — XD
Military Screening — /B

ADVANCED LINEAR DEVICES

ADVANCED LINEAR DEVICES, INC.

Package

P	PDIP
C	Size-Brazed Ceramic
Z	Dice in Waffle Pack
L	Leadless Chip Carrier
S	Small Outline
M	TO Metal Can

Number of Pins

A	8	H	28
B	14	I	36
C	16	J	40
D	18	K	44
E	20	L	48
F	22	M	64
G	24	N	68

Prefix	Device	Suffix
ALD	555	P A

Type — 555
Device Number — P
Package — A

ADVANCED MICRO DEVICES

COMMERICAL NOMENCLATURE

Standard Products

AM	Advanced Micro Devices

Package

P	Plastic DIP
D	Ceramic DIP
F	Flatpack
G	Pin Grid Array
H	Metal Can
J	Plastic Leaded Chip Carrier
L	Ceramic Leadless Chip Carrier

Temperature Range

C	Commercial (0 to +70°C)
I	Industrial (-40 to +85°C)
E	Ext'd. Commerical (-55 to +125°C)
L	Limited Military* (-55 to +125°C)
M	Military* (-55 to +125°C)

Optional Processing

Blank	Standard processing
B	Burn in

Prefix	Device	Suffix
AM	2080	P C B

Package — P
Temperature Range — C
Optional Processing — B
Alternate Packaging Option

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

ADVANCED MICRO DEVICES (continued)

Current AMD PAL® Device Nomenclature

Technology

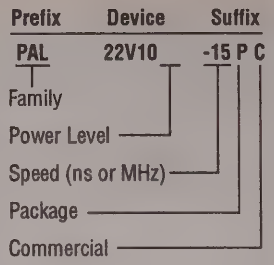
Blank	Bipolar
C	CMOS, UV
CE	CMOS, SE

Power Level

Blank	Full Power (1 watt)
L	Half Power (1/2 watt)
Q	Quarter Power (1/4 watt)
Z	Zero Stand-by Power

Package

P	Plastic DIP
D	CERDIP
Q	Windowed CERDIP
J	PLCC


Prefix
Device
Suffix
PAL
22V10
-15 P C
Family
Power Level
Speed (ns or MHz)
Package
Commercial

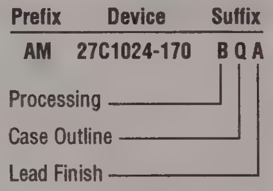
MILITARY NOMENCLATURE

Lead Finish

A	Hot Solder DIP
B	Tin Reflow
C	Gold

Processing

B	Mil-STD-883 Class B


Prefix
Device
Suffix
AM
27C1024-170
B Q A
Processing
Case Outline
Lead Finish

Current AMD PAL® Device Nomenclature

Technology

Blank	Bipolar
C	CMOS, UV
CE	CMOS, SE

Power Level

Blank	Full Power (1 watt)
L	Half Power (1/2 watt)
Q	Quarter Power (1/4 watt)
Z	Zero Stand-by Power

Lead Finish

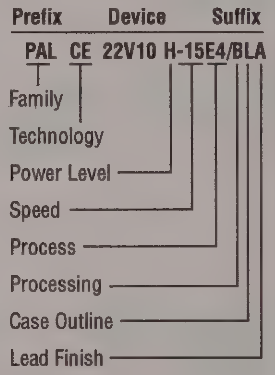
A	Hot Solder DIP
B	Tin Reflow
C	Gold

Processing

B	Mil-STD-883 Class B

Case Outline

P	Plastic DIP
D	CERDIP
Q	Windowed CERDIP
J	PLCC


Prefix
Device
Suffix
PAL CE 22V10 H-15E4/BLA
Family
Technology
Power Level
Speed
Process
Processing
Case Outline
Lead Finish

FIFO

Processing

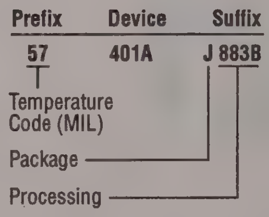
883B	Mil-STD-883 Class B

Package

J	Ceramic DIP
L	Ceramic Leadless Chip Carrier
W	Cerpack

Temperature Code

57	Military


Prefix
Device
Suffix
57
401A
J 883B
Temperature Code (MIL)
Package
Processing

Bipolar Digital Logic

Processing

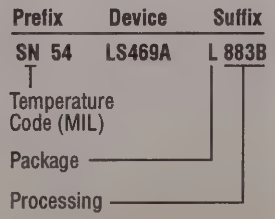
883B	Mil-STD-883 Class B

Package

JS	Ceramic SKINNYDIP
L	Ceramic Leadless Chip Carrier
W	Cerpack

Temperature Code

54	Military

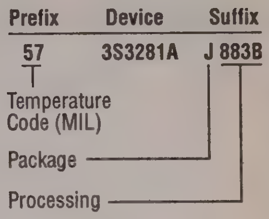

Prefix
Device
Suffix
SN 54
LS469A
L 883B
Temperature Code (MIL)
Package
Processing

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

ADVANCED MICRO DEVICES (continued)

MILITARY NOMENCLATURE (cont'd.)

High Performance PROMS


Prefix
Device
Suffix
57
3S3281A
J 883B
Temperature Code (MIL)
Package
Processing

Processing

883B	Mil-STD-883 Class B

Package

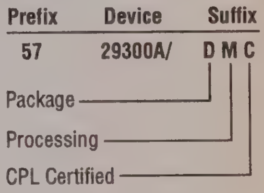
J	Ceramic DIP
JS	Ceramic SKINNYDIP
L	Ceramic Leadless Chip Carrier
W	Cerpack

Temperature Code

5	Military

AMD Controlled Products List

C	CPL Certified
B	Military Burn-in


Prefix
Device
Suffix
57
29300A/
D M C
Package
Processing
CPL Certified

Processing

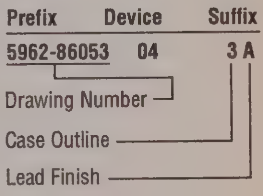
M	Military temperature range including Burn-in

Package

D	Dual-in Line
F	Flat Pack
L	Leadless Chip Carrier
H	TO

Standardized Military Drawing (SMD)

B	CPL CertifiedAMilitary Burn-in


Prefix
Device
Suffix
5962-86053
04
3 A
Drawing Number
Case Outline
Lead Finish

Processing

M	Military temperature range

Package

D	Dual-in Line
F	Flat Pack
L	Leadless Chip Carrier
H	TO

Lead Finish

A	Hot Solder DIP
C	Gold
X	Any Acceptable Lead Finish

Standardized Military Drawing (SMD)

RAD-HARD IDENTIFIER
When applicable. Dash indicates a Non-Rad Hard Device

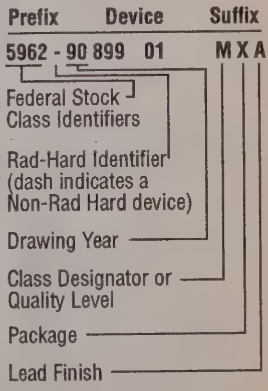
DRAWING YEAR
38 indicates "Old" Jan Part Number converted to new number

Lead Finish

A	Hot Solder DIP
C	Gold
X	Any Acceptable Lead Finish

Class Designator or Quality Level

M	1.2.1, Mil-STD-883
B or S	Mil-M-38510
H or K	Mil-M-38534
Q or V	Mil-I-38385


Prefix
Device
Suffix
5962 - 90 899 01
M X A
Federal Stock Class Identifiers
Rad-Hard Identifier (dash indicates a Non-Rad Hard device)
Drawing Year
Class Designator or Quality Level
Package
Lead Finish

When contacting suppliers, say you saw it in IC MASTER

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

ALLEGRO MICROSYSTEMS

Formerly Sprague Semiconductor Group

Family

UC	CMOS/Complex Arrays
UD	Power Drivers
UG	Hall Effect Circuits
UL	Linear Circuits
UM	Module or Assembly

Temperature

N	Limited Temperature Range -20°C to +85°C Typical
Q	Industrial Temperature Range -40°C to +85°C
S	Military Temperature Range -55°C to +125°C

Package

A	Plastic DIP
B	Plastic DIP with Heat Sink Tabs
C	Chip
CW	Probed Wafer
E	Leadless Chip Carrier
L	Plastic SOIC
M	8-Pin Plastic DIP
T	3-Pin SIP
U	Thin 3-Pin SIP
W	12-Pin SIP
Y	TO-92 Transistor
Z	5-Lead TO-220

Prefix	Device	Suffix
UL N	2111	A

Family

Temperature

Package

Family

UH	Peripheral Power/Display Drivers

Package

C	Hermetic FP
D	Hermetic DIP
K	Chip
P	Plastic DIP

Prefix	Device
UH P	400

Family

Package

A	Allegro Microsystems

Temperature Range

C	Commercial (0°C to 70°C)
S	Standard (-20°C to 85°C)
E	Ext.d autm./ind. (-40°C to 125°C)
K	Ext.d indl./mil. (-40°C to 125°C)
M	Military (-55°C to 125°C)
X	Special (i.e.,wafer probed at 25°C only)

Prefix	Device	Suffix
A	8958	S EA F–1

Temperature Range

Package

Instructions

Package

A	Plastic, dual in-line
B	Plastic, dual in-line semi-tab
C	Unpackaged chip
CW	Probed wafer
EA	Plastic, leaded chip carrier, one semi-tab
EB	Plastic, leaded chip carrier, two semi-tabs
EK	Hermetic, leadless chip carrier
EP	Plastic, leaded chip carrier
H	Hermetic, metal-sealed co-fired ceramic dual in-line
HH	Hermetic, metal-sealed co-fired ceramic, 3-lead
L	Plastic, SOIC
LB	Plastic, wide-body SOIC power tab
LL	Plastic, SOT-89, long-lead version
LT	Plastic, SOT-89
LW	Plastic, wide body SOIC
M	Plastic, 8-pin mini-DIP
R	Hermetic, glass-sealed ceramic dual in-line
T	Plastic, 3-lead mini-SIP
U	Plastic, 3-lead thin mini-SIP
UA	Plastic, short 3-lead thin mini-SIP
V	Hermetic, metal flange mount (MO-097AA)
W	Plastic, 12-lead single in-line power tab
X	Special
Z	Plastic, 5-lead single in-line power tab (TO-220)
ZH	Z Package with formed leads for horizontal mount
ZV	Z Package with formed leads for vertical mount

Prefix	Device	Suffix
UL N	2111	A

Family

Temperature

Package

Prefix	Device
UH P	400

Family

Package

Prefix	Device	Suffix
A	8958	S EA F–1

Temperature Range

Package

Instructions

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

ALTERA

Family

EP	Altera General Purpose Logic Family (Erasable/Programmable)
EPS	SAM Product Family
EPB	Micro Channel Family
EPM	MAX 5000/7000 Product Family
EPF	FLEX 8000 Product Family

Package

D	Windowed ceramic dual in-line (CerDIP)
P	One time programmable plastic dual in-line (Plastic DIP)
J	Windowed ceramic J-leaded chip carrier (JLCC)
L	One time programmable plastic J-leaded chip carrier (PLCC)
G	Windowed ceramic pin-grid array (PGA)
S	Plastic small outline IC (SOIC)
Q	Plastic Quad Flat Package (PQFP)

Speed

Military Processing

883B	Processed to MIL-STD-883, current revision
B	Fully compliant with deviation to MIL-STD-883, current revision (Consult Altera on specific deviations)
5962	DESC Standard Military Drawing (SMD)

Temperature Range

C	Commercial (0°C to 70°C)
I	Industrial (-40°C to 85°C)
M	Military (-55°C to 125°C)

Prefix	Device	Suffix
EP	600	D M 883B

Family
Package
Temperature Range
Military Processing
Speed

AMERICAN MICRO SYSTEMS, INC.

AMI SEMICONDUCTORS
(Current)

GOULD
AMI Semiconductors
(Discontinued)

Family

S	Standard

Package

P	Plastic
D	Cerdip
C	Ceramic
L	Leadless Chip Carrier

Pins/Package

8	Plastic
14	Plastic, Ceramic
16	Plastic, DIP and SOIC, Cerdip, Ceramic
18	Plastic, Cerdip, Ceramic
22	Plastic, Cerdip, Ceramic
24	Plastic, Cerdip, Ceramic
28	Plastic, DIP and SOIC, Cerdip, Ceramic
40	Plastic, Cerdip, Ceramic
48	Plastic, Ceramic
64	Plastic, Ceramic
20	Lead Chip Carrier
24	Lead Chip Carrier
28	Lead Chip Carrier
40	Lead Chip Carrier
44	Lead Chip Carrier—Plastic, Ceramic
48	Lead Chip Carrier
68	Lead Chip Carrier—Plastic, Ceramic, Pin Grid Array
84	Lead Chip Carrier—Plastic, Ceramic, Pin Grid Array
28	Lead Plastic Mini-Flat Package
44	Lead Plastic Mini-Flat Package
68	Lead Plastic Mini-Flat Package
100	Ceramic Pin Grid Array
124	Ceramic Pin Grid Array
144	Ceramic Pin Grid Array

Prefix	Device	Suffix
S	68A00	P
	5101L–1	C
	2559A	P

Version
Package Type

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

ANALOG DEVICES

AD	Analog Devices
HA	Hybrid A/D
HD	Hybrid D/A

General Information

A	Second Generation
DI	Dielectrically Isolated
Z	Operation on ±12V

Temperature Range/Performance

(in order of increasing parametric performance)

I,J,K,L,M	0°C to 70°C
A,B,C	-25°C or -40°C to 85°C
S,T,U	-55°C to 125°C

Package

D	Side Brazed Dual-In-Line Ceramic

Package

E	Leadless Chip Carrier
F	Flat-Pack
G	Pin Grid Array
H	Round Hermetic Metal Can
M	Metal Hermetic Dual-In-Line
N	Plastic Molded Dual-In-Line
P	Plastic Leaded Chip Carrier (PLCC)
Q	Cerdip
R	Small Outline Plastic (SOIC)
V	Pin-Stake
W	Ceramic/Glass Dual-In-Line, Non-Hermetic
Y	Single In-Line
Z	Ceramic Leaded Chip Carrier

Monolithic and Hybrid ICs

Prefix	Device	Suffix
AD	XXXX	A Y Z

General Information
Temperature
Package

Video Hybrid Products

Prefix	Device	Suffix
XXX	YYZZ	W M B

Resolution
Speed
Functional or Option
Package
Military

Precision Monolithic Devices

Description

ADC	Analog-to-Digital Converter
AMP	Instrumentation Amplifier
BUF	Buffer (Voltage Follower)
CMP	Comparator
DAC	Digital-to-Analog Converter
JAN	Mil-M-38510 Slash Sheet
LIU	Serial Data Line Interface Unit
MAT	Matched Transistors
MUX	Multiplexer
OP	Operational Amplifier
PKD	Peak Detector
PM	PMI Second Source Product
REF	Voltage Reference
RPT	PCM Line Repeater
SMP	Sample/Hold Amplifier
SW	Analog Switch
SSM	Audio Products

Package

H	6 lead TO-78
J	8 lead TO-99
K	10 lead TO-100
P	Epoxy B DIP
PC	Plastic Leaded Chip Carrier
Q	16 lead Ceramic DIP
R	20 lead Ceramic DIP
RC	20 Position LCC
S	Small Outline Package
T	28 lead Ceramic DIP
TC	28 Position LCC
V	24 lead Ceramic DIP
X	18 lead Ceramic DIP
Y	14 lead Ceramic DIP
Z	8 lead Ceramic DIP

Prefix	Device	Suffix
DAC	08	BI E Q/883

Burn-in Option
Electrical Grade
Package
MIL–STD 883 Class B

ANALOG SYSTEMS

M	Analog Systems Monolithic Product

Family

A	Operational Amplifier
D	Power Driver
K	Comparator
Z	Current Booster

Package

D	Ceramic DIP
H	Metal Can
P	Plastic DIP
T	Power Package with Heat Sink Tab

Temperature Range

C	Commercial 0°C to 70°C
I	Industrial -25°C to 85°C
M	Military (-55°C to 125°C)

Prefix	Device	Suffix
MA	332	C P

Temperature Range
Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

APEX

μtech

Family

Prefix	
PA	Power Amplifier
PB	Power Booster
WA	Wideband Amplifiers
WB	Wideband Booster
DB	20W DC/DC Converter
DHC	6W DC/DC Converter

Suffix	
S	Single Output (DC/DC)
D	Dual Output (DC/DC)
M	Military Screen - Non-Compliant
M/883	Military Screen - Compliant

DC/DC Converter

Prefix	Device	Suffix
DB	28 12	S

V in
V out
Output

ASTEC SEMICONDUCTOR

Prefix	
AS	Astec

Package

D	SOP
N	PDIP
LP	TO-92
HP	TO-237
S	SOT-89

Prefix	Device	Suffix
AS	431	LP

Package

ATMEL

Prefix	
AT	Atmel

Temperature Range

C	Commercial (0°C to 70°C)
I	Industrial (-40°C to 85°C)
M	Military (-55°C to 125°C)

Package

B	Ceramic Side Braze Dual Inline
C	Cerpack
D	Cerdip
F	Flatpack
G	Cerdip, One Time Programmable
J	Plastic J-Lead Chip Carrier
K	Ceramic J-Lead Chip Carrier
L	Leadless Chip Carrier
M	Ceramic Module
N	Leadless Chip Carrier, One Time Programmable
P	Plastic DIP
Q	Plastic Quad Flatpack
R	SOIC
S	SOIC
T	TSOP
U	PGA
V	TAB
W	Die
Y	Cerpack
Z	Ceramic Multi-Chip Module

Processing

Blank	Standard
/883	Mil-Std-883, Class B Fully Compliant
B	Mil-Std-883, Class B Non-Compliant

Prefix	Device	Suffix
AT	XXXXX	X X X X

Speed
Package
Temperature Range
Processing

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

AT&T

Digital Signal Processors Development Tools

Tool Type

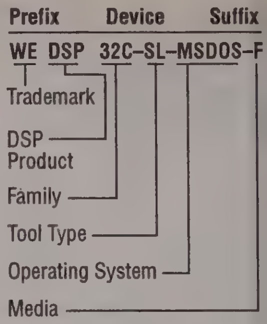
SL	Software Library
AL	Application Library
CC	C Language Compiler
DS	Hardward Development System
CB	Host Interface Cable
BD	Plug-In-Board
SK	Starter Kit

Operating System

UN5VX	UNIX on VAX 055
VMS	VMS on VAX 11/7033
BKSUN	UNIX Berkley 025
HP9	UNIX V on HP9000
MCMPW	MACOS on Macintosh II
MSDDOS	MSDOS on PC6300 and compatibles

Media

T	1600 DPL Magnetic Tape
C	4" x 6" Data Cartridge
F	5 1/4 Floppy Disk
D	3 1/2 Floppy Disk


Prefix
Device
Suffix
WE DSP 32C–SL–MSDOS–F
Trademark
DSP Product
Family
Tool Type
Operating System
Media

Digital Signal Processors Family

32	DSP32
32C	DSP32C
16	DSP16
16A	DSP16A

Operating System

C	Hermetic Ceramic DIP
G	Hermetic Ceramic Rectangular PGA
R	Hermetic Ceramic Square PGA
PR	Plastic Square PGA
M	Plastic Leaded Chip Carrier (PLCC)
F	Plastic Quad Flat Pack (PQFP)

ROM ID

—	ROMless Device
AL	ROM coded with Application Library
XX	Customer Specific ROM code

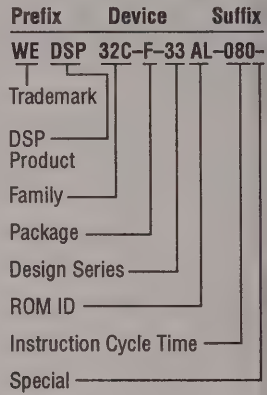
Instruction Cycle Time

250	250 ns	075	75 ns
200	200 ns	055	55 ns
160	160 ns	033	33 ns
100	100 ns	025	25 ns
080	80 ns		

Special

Blank STD Specification

V	3.3 V Operation
M	Military 883 Spec.


Prefix
Device
Suffix
WE DSP 32C–F–33 AL–080–
Trademark
DSP Product
Family
Package
Design Series
ROM ID
Instruction Cycle Time
Special

Linear, Digital and High-Voltage ICs

1. Class

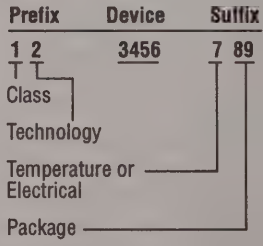
B	Building Blocks/Transistor Array
D	Digital
H	Hybrid
L	Linear
U	Microwave

2. Technology

B	CBIC
C	CMOS
G	Gallium Arsenide
H	High Voltage
J	MIIM
S	SBC

Package

A	Wafer
B	8-Pin DIP
C	16-Pin DIP
D	18-Pin DIP
E	20-Pin DIP
F	24-Pin DIP
G	28-Pin DIP
H	32-Pin DIP
J	40-Pin DIP
K	16-Pin SOJ
L	20-Pin SOJ
M	28-Pin SOJ
N	Reversed
P	44-Pin PLCC
R	68-Pin PLCC
S	8-Pin PLCC
T	6-PinDIP
U	Unassigned
W	16-Pin SONB
X	Special Package
Y	20-Pin SOG
AA	Thinned Wafer
AB	6-Pin Gull Wing
AC	8-Pin Gull Wing
AD	44-Pin Ceramic Chip Carrier
AE	16-Pin SOG
AF	14-Pin SONB
AG	32-Pin Ceramic Chip Carrier
AH	28-Pin SOTB
AJ	28-Pin SOG
AK	24-Pin Ceramic Chip Carrier
AL	28-Pin Ceramic Chip Carrier
AM	3-Lead Plastic
AN	48-Pin Ceramic Chip Carrier
AP	14-Pin DIP
AT	Tab-Bonded Chip


Prefix
Device
Suffix
1 2
3456
7 89
Class
Technology
Temperature or Electrical
Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

AT&T (continued)

Prefix	
MOS	Communication ICs
T	Telecommunications

Generation

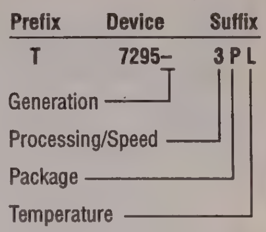
A	Second
B	Third, etc.

Package

B	Nonhermetic, Ceramic DIP
C	Hermetic DIP
D	Cerdip
E	Small Outline
F	Plastic Quad Flat Pack
G	Dual-Cavity Ceramic DIP
J	Nonhermetic Leadless Chip Carrier
L	Hermetic Ceramic Leaded Chip Carrier
M	Plastic Leaded Chip Carrier
N	Nonhermetic Ceramic Pin Array
S	Plastic Pin Array
T	Plastic Leaded Chip Carrier
U	Unhermetic Ceramic Leaded Chip Carrier
W	Chip in Water Form

Temperature Range

C	0°C to 70°C
E	0°C to 85°C
M	Military
L	-40°C to 85°C


Prefix
Device
Suffix
T
7295–
3 P L
Generation
Processing/Speed
Package
Temperature

AVASEM

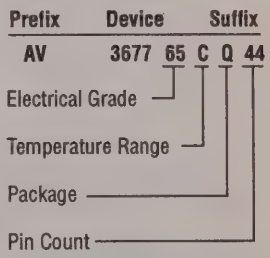
Prefix	
AV	Avasem

Temperature Range

M	Military (-55°C to 125°C)
E	Extended (-40°C to 85°C)
I	Industrial (-20°C to 85°C)
C	Commercial (0°C to 70°C)

Package

N	300 mil Plastic DIP
P	600 mil Plastic DIP
C	300 mil CERDIP
J	600 mil CERDIP
Q	Plastic Quad Pak (PLCC)
F	Plastic Flat Pak (QFP)
L	Ceramic Leadless Chip Carrier (LCC)
S	150 mil Small Outline (SOIC)
W	300 mil Small Outline (SOIC)


Prefix
Device
Suffix
AV
3677
65
C
Q
44
Electrical Grade
Temperature Range
Package
Pin Count

BENCHMARQ

Prefix	
BQ	Benchmarq

Package

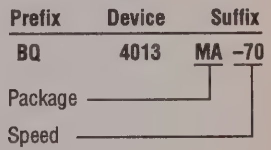
P	Plastic DIP
PN	Plastic DIP Narrow
S	SOIC
SN	SOIC Narrow
Q	Quad PLCC
Mx	Modules (x refers to mod. pack. size/drawing)

Speed

30,40,50,70...200 or blank

Temperature Range

blank	Commercial
N	Industrial


Prefix
Device
Suffix
BQ
4013
MA
-70
Package
Speed

BIPOLAR INTEGRATED TECHNOLOGY

BiTk

B

Interface Family

2	TTL
3	ECL 10KH

Product Type

0	Integer
1	Floating Point
2	Storage

Package/Screening

Blank	Standard Heatsink Attached
S	No Heatsink Attached
B	Standard Heatsink Attached with Burn-In
E	No Heatsink Attached with Burn-In

Prefix	Device	Suffix
B X X	XXX	X

Interface Family
Product Type
Packaging/Screening

BROOKTREE

Brooktree®

Family

100-149	D/A Converters
200-249	A/D Converters
250-299	Imaging Components
300-399	Reserved
400-449	Graphics Peripherals
450-499	RAMDACS
500-599	General Components
600-699	ATE Components
700-799	Reserved
800-899	Reserved
900-999	Reserved

Package

C	Ceramic DIP
CJ	Cerquad
D	Ceramic Sidebraze DIP
F	Flat package
FN	Ceramic Flatpack (no heatsink)
G	Pin grid array
L	Leadless chip carrier
P	Plastic DIP
PF	Plastic Quad Flatpack
PJ	PLCC
S	150 mil SOIC
SW	300 mil SOIC
HJ	Plastic J–Lead

Temperature Range and Performance

B	–25 to 85°C
K	0 to 70°C (0 to 85°C for 100K ECL)
L	0 to 70°C, Low Power
S	–55 to 125°C
883	Optional MIL-STD 883C, Class Processing for the S temperature range.

Speed/Grade

XXX	For VIDEODACS and RAMDACS, specifies MHz

Prefix	Device	Suffix
Bt 458	K G 125	883

Family
Temperature Range and Grade
Package
Speed/Grade
Mil

BURR-BROWN

BURR-BROWN®

General Information

A	Improved Performance
L	Latched
Z	±12V supply

Temperature

J,K,L	0°C to 70°C
A,B,C	-25°C to 85°C
R,S,T,V	-55°C to +125°C

Package

M	Metal Can, Hermetic
L	Leadless Chip carrier
P	Molded Plastic
H	Ceramic, Hermetic
G	General Ceramic
U	Small Outline
D	Die
N	PLCC

Screening

Q	Enhanced Reliability
QM	Enhanced Reliability, Military Visual

Prefix	Device	Suffix
ADC	803	X X X X

General Information
Temperature Range
Package
Screening

Temperature Range

H,J,K,L	0°C to 70°C
A,B,C	-25°C to +85°C
R,S,T,V	-55°C to 125°C

Package

M	Metal Can, Hermetic
P	Platic
G	Ceramic
U	Small Outline
D	Die
N	PLCC

Screening

Q	Enhanced Reliability
QM	Enhanced Reliability, Military Visual

Prefix	Device	Suffix
OPA	111	X X X

Temperature Range
Package
Screening

Temperature Range

V	-55°C to 125°C
W	-55°C to 125°C

Package

M	Metal
L	Chip Carrier

HiRel Designation

/BBC	883/B

Amplifiers/Multipliers ADC's/VFC's:

Prefix	Device	Suffix
OPA	105	X M /XXX

Temperature Range
Package
Screening

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

BURR-BROWN (continued)

Temperature Range

V -55°C to +125°C

Input Coding

CBI
COB

Output

V Voltage
I Current

HiRel Designation

/883B

DAC's:

Prefix	Device	Suffix
DAC	87	X-XXX-X/XXX

Range °C
Input Coding
Output
HiRel Designation

CALIFORNIA MICRO DEVICES MICROCIRCUITS DIVISION

Description

C Special
G Standard

Package

P Plastic
C Ceramic
D Cerdip
E Leaded Chip Carrier
L Leadless Chip Carrier

Temperature Range

None 0°C to +70°C
I -40°C to +85°C

Prefix	Device	Suffix
G	65SCXX	APL12

Description
Version
Package
Temperature Range
Speed/Power Variation

CATALYST SEMICONDUCTOR

CAT

Parameter

A Advanced Device or Special Assg.
H High Endurance
L Low Power
V Special Voltage

Package

COB Chip on Board
D Cerdip
L LCC
K S.O. (EIAJ)
N PLCC
P Plastic DIP

Temperature Range

– Commerical (0°C to 70°C)
I Industrial (-40°C to 85°C)
M Military (-55°C to 125°C)

Speed

-20 200 ns

Prefix	Device	Suffix
CAT	28C64	A P I -20

Parameter
Package
Temperature Range
Speed or Program No.

Prefix	Device	Suffix
CAT	35C804	A P I

3 = 3V
5 = 5V
Clock Frequency:
A = 4.9152 MHz
B = 3.5795 MHz

CHERRY SEMICONDUCTOR

CS Cherry Semiconductor

Package

N Plastic DIP
J Ceramic DIP
V Multiwatt Vertical
VH Multiwatt Horizontal
FN PLCC
D SO Narrow
DW SO Wide
T TO 220
Z TO 92

Prefix	Device	Suffix
CS	122	D 14

Package
No. of Pins

CIRRUS LOGIC

CL Cirrus Logic
GD Graphics, Display
CD Communications, Data
SH Storage, Hard Disk

Package

P Plastic Leaded Chip Carrier
Q Quad Flat Pack

Performance

10 10 MHz

Temperature

C Commercial

Prefix	Device	Suffix
CL-SH	360	-10 P C- A

Performance
Package
Temperature Range

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

CRYSTAL SEMICONDUCTOR

Prefix	
CS	Crystal Standard Products
CXT	Quartz Crystals

Family

3	Data Acquisition Support Circuits
4	D/A Converters/Multimedia
5	A/D Converters
6	Telecommunications
8	Data Communications

Suffix	
H	Special Handling
NN	Electrical or Speed Variation

Package

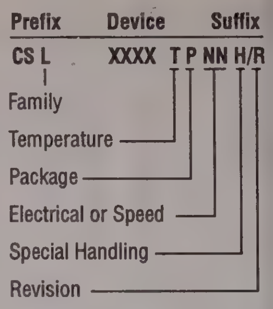
P	Plastic DIP
C	Ceramic Sidebraze
D	CERDIP
L	Plastic Leaded Chip Carrier,
S	SOIC
E	Ceramic LCC
G	Gullwing Ceramic Chip Carrier
Q	Quad Flatpack

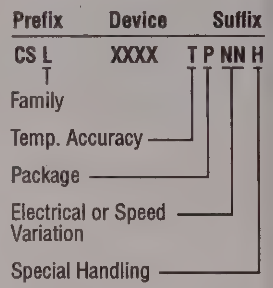
Temperature

C	0°C to 70°C
I	-40°C to 85°C
M	-55°C to 125°C

Temperature Accuracy

Temp	Good	Better	Best
0°C to 70°C	J	K	L
-40°C to 85°C	A	B	C
-55°C to 125°C	S	T	U

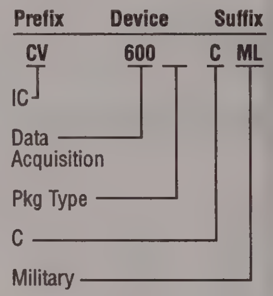

Prefix
Device
Suffix
CS L
XXXX
T P NN H/R
Family
Temperature
Package
Electrical or Speed
Special Handling
Revision


Prefix
Device
Suffix
CS L
XXXX
T P NN H
Family
Temp. Accuracy
Package
Electrical or Speed Variation
Special Handling

CYBERNETIC MICRO SYSTEMS

Prefix	
CY	Chip
CYB	Development board
CYS	Interface software

Suffix	
no suffix	NMOS, Commercial DIP
C	CMOS/ML Military 883B
/J	J-Lead PLCC
no suffix	40 pin DIP
/Q	Quad Flat Pack


Prefix
Device
Suffix
CV
600
C ML
IC
Data Acquisition
Pkg Type
C
Military

CYPRESS SEMICONDUCTOR

Processing

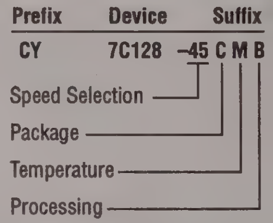
B	HiRel

Temperature Range

C	Commercial (0°C to 70°C)
I	Industrial (-40°C to 85°C)
M	Military (-55°C to 125°C)

Package

B	Plastic Pin Grid Array
D	CERDIP
F	Flatpack
G	Pin Grid Array
H	Windowed Hermetic LCC
J	PLCC
K	CERPAK
L	LCC
P	Plastic
Q	Windowed LCC
R	Windowed PGA
S	SOIC
T	Windowed CERPAK
U	Windowed Ceramic Quad Flatpack
V	SOJ
W	Windowed CERDIP
X	Dice
Y	Ceramic LCC
HD	Hermetic DIP
HV	Hermetic Vertical DIP
PF	Plastic Flat SIP
PS	Plastic SIP
PZ	Plastic ZIP


Prefix
Device
Suffix
CY
7C128
-45 C M B
Speed Selection
Package
Temperature
Processing

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

DALLAS SEMICONDUCTOR

DALLAS
SEMICONDUCTOR

Package

Q	Quad
S	SOIC
K	Application Kit

Voltage Range

AB	5V ±5%
AD	5V ±10%
Y	5V ±10%

Temperature Range

Blank	0°C to 70°C
IND	-40°C to 85°C
N	-40°C to 85°C

Prefix	Device	Suffix
DS	1225	AB –150

Voltage Range — AB
Access Time (ns) — 150

Prefix	Device	Suffix
DS	5000	32– 12

Memory Size (kBytes) — 32
Performance (MHz) — 12

Prefix	Device	Suffix
DS	1231	– 20

Hysteresis — 20

Prefix	Device	Suffix
DS	1000	– 500

Total Delay (ns) — 500

Prefix	Device	Suffix
DS	1260	– 250

Capacity (x 10 mAHr) — 250

DATA DELAY DEVICES

Package—Monolithic

Blank	14 Pin DIP
G	14 Pin Gull-Wing
S	16 Pin DIP

Prefix	Device	Suffix
3D	70xx	G 500

Package — G
Delay (ns) — 500

DATEL

DATEL

Family

ADC	A/D Converters
ADS	Sampling A/D Converters
AM	Amplifiers
DAC	D/A Converters
DAS	Data Acquisition System
FLJ, FLT	Filters
MV, MX	Multiplexer
SHM	Sample-Hold
VF	Voltage to Freq. Converters
VR	Voltage Reference
VI	Voltage Inverter

Package—Monolithic

1	14 Pin DIP
2	TO-99

Seal—Hybrid

G	Epoxy
M	Hermetic

Temperature

C	0°C to 70°C
M	–55°C to 125°C

Prefix	Device	Suffix
AM	490	2 A

Package — 2
Selection — A

Prefix	Device	Suffix
DAC	HZ12B	G C

Seal — G
Temperature — C

DENSE-PAC MICROSYSTEMS, INC.

Familiy Type

C	ECL RAM
D	DRAM
E	EEPROM
F	FIFO
N	NOVRAM
O	VIDEORAM
P	Dual Port
R	Ferroelectric
S	SRAM
T	Pseudo Static RAM
V	UVPROM
Z	Flash EEPROM

Package

A	PGA, Ceramic
B	PGA, Plastic
C	DUAL SIP, Ceramic
D	DUAL SIP, Ceramic Leadless
E	DUAL SIP, Plastic
F	FLATPACK, Ceramic
G	LCC, Ceramic Leadless Chip Carrier
H	Gullwing Leaded Chip Carrier
I	'I' (Straight) Leaded Chip Carrier
J	'J' Leaded Chip Carrier
K	ZIP, Ceramic
L	ZIP, Plastic

Prefix	Device	Suffix
DP S	92256	G –85 M

Type — S
Package — G
Speed — 85
Temperature/Screening — M

Dense-Pac Microsystems, Inc.

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

DENSE-PAC MICROSYSTEMS, INC. (continued)

Module/Monolithic Designator
- C Compatible Pin-Out
- L Low Profile
- M Monolithic
- S Module with Logic
- W Word Controlled Module
- X Module without Logic

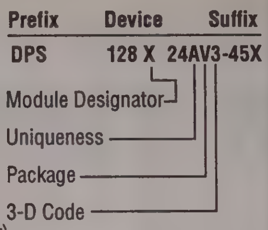
Uniqueness Designator
- E Evolutionary Pinout
- R Revolutionary Pinout

- M DIP, Ceramic
- N DIP, Ceramic Side Brazed
- P DIP, Plastic (Devices or Substrate)
- Q QIP, Ceramic
- R QIP, Plastic
- S SIP, Ceramic
- T SIP, Ceramic Leadless
- U SIP, Plastic
- V Versa-Pac PGA
- W SIP, Plastic Leadless
- X Surface Mount Module
- Y SLCC (Stackable Leadless Chip Carrier)
- Z Ceramic Cased Stack

Temperature/Screening
- C 0°C to 70°C
- I –40°C to 85°C plus Burn-In
- M –55°C to 125°C MIL Processed
- B –55°C to 125°C (components receive MIL processing including QCI or optionally, 883 devices

3-D Codes:
- 3 1st Generation 3-D Devices (SLCC)
- 4 2nd Generation 3-D Devices (SCC)

Uniqueness Designator:
May be used for vendor codes and uniqueness designator


Prefix
Device
Suffix
DPS
128 X 24AV3-45X
Module Designator
Uniqueness
Package
3-D Code

ECI SEMICONDUCTOR

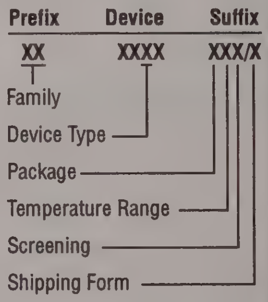
Family
- EC ECI
- LM NSC Alt Source
- LT Linear Tech Alt
- UC Unitrode Alt Source
- TL TI Alt Source

Package Type
- D Ceramic Sidebraze DIP
- F Ceramic Flat Pack
- J CERDIP
- N Narrow
- P Plastic DIP
- Q Plastic Chip Carrier
- R Ceramic Chip Carrier
- S SOIC
- T TO 8, 92, 220
- U SOT 23, 89
- W Dice

Temperature Range
- C 0°C to 70°C
- I –25°C to 85°C
- E –40°C to 85°C
- M –55°C to 125°C

Voltage Reference/ Regulator Screening Guide
- A ±0.5% tolerance
- B ±1.0% tolerance
- C ±2.0% tolerance

Shipping Format
- A Antistatic Tubes
- B Bulk Packages
- T Tape and Reel
- D Waffle Pack
- W Un-sawn Wafer
- S Sawn Wafer on Film


Prefix
Device
Suffix
XX
XXXX
XXX/X
Family
Device Type
Package
Temperature Range
Screening
Shipping Form

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

EG&G RETICON

Prefix

Type

A	Area
L	Linear
O	Circular
C	Evaluation Board

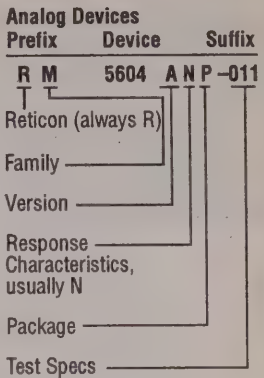
Family

D	Delay Lines
M	Modem Filter
F	Switched Capacitor Filter
U	Universal Active Filter
T	Transversal Filter
C	Board Level Product

Suffix

P	Plastic
C	Cerdip
B	Sidebrazed
L	Leadless Hermetic
S	PLCC
D	Dice
W	Water
E	Epoxy

EG&G RETICON


Analog Devices
Prefix Device Suffix
R M 5604 A N P -011
Reticon (always R)
Family
Version
Response Characteristics, usually N
Package
Test Specs

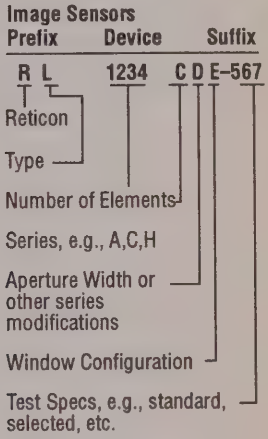


Image Sensors
Prefix Device Suffix
R L 1234 C D E-567
Reticon
Type
Number of Elements
Series, e.g., A,C,H
Aperture Width or other series modifications
Window Configuration
Test Specs, e.g., standard, selected, etc.

ELANTEC

élantec

Prefix

EHA	Harris Alternate Source
ELH	National Alternate Source
EL	Proprietary
EP	PNP Array
EN	NPN Array

Package

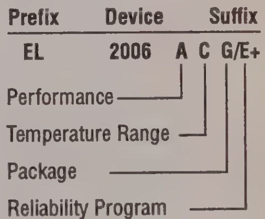
G	TO-8 metal can
H	TO-99 metal can
J	Ceramic DIP
K	TO-3 metal can
M	Large Body SOIC
N	Plastic DIP
S	Narrow Body SOIC
T	TO-220 power pack

Performance

A	Enhanced

Temperature Range

C	-0°C to 70°C
None	-40°C to +85°C


Prefix Device Suffix
EL 2006 A C G/E+
Performance
Temperature Range
Package
Reliability Program

ELECTRONIC DESIGNS INCORPORATED

EDI

Original Numbering System (Products Introduced Before 1/87)

Family

4	DRAM
5	EEPROM
6	µPAK
7	UVEPROM
8	SRAM

Word Width

1	1 bit wide, etc.

Word Depth

01	1K
32	32K
128	128K

Technology

C	CMOS, 4T
HC	High Speed CMOS
CL	Full CMOS, 6T
N	Nibble Mode (DRAM)

Speed

70	70 ns
10	100 ns

Power (8Kx* family only)

Blank	Standard Power
LP	Low Power

Package

C	Ceramic LCC on ceramic substrate
P	Plastic CC on ceramic substrate
J	Ceramic LCC
K	Ceramic sidebrazed

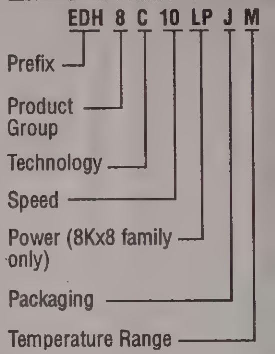
Temperature Range

C	Commerical
I	Industrial
M	Military

Screening

Blank	Commercial
HR	High Reliability

Original System (prior to 1/87)
Prefix Device Suffix


EDH 8 C 10 LP J M
Prefix
Product Group
Technology
Speed
Power (8Kx8 family only)
Packaging
Temperature Range

New Numbering System (Products Introduced After 1/87)

Family

4	DRAM
5	EEPROM
6	µPAK
7	UVEPROM
8	SRAM
9	Special

Product Type

Blank	Monolithic
M	Module (Ceramic)
F	Module (FR4)

Word Width

1	1 bit wide
8	8 bits wide

Word Depth

01	1K
32	32K
128	128K
1M	1M

Technology

B	Bipolar
N	NMOS
C	CMOS, 4T STD Power
P	CMOS, 4T Low Power
H	CMOS, 6T STD Power
L	CMOS, 6T Low Power

Speed

20	20 ns
200	200 ns

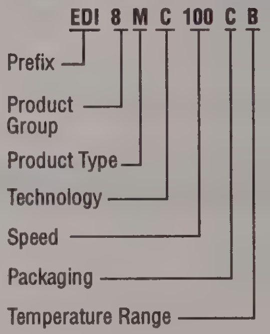
Package

P	Monolithic/plastic DIP
C	Monolithic/ceramic DIP
D	CERDIP (600 mil)
T	Thin DIP (400 mil)
L	Leadless chip carrier
J	Ceramic leaded chip carrier
Y	Plastic leaded chip carrier
G	PGA (Pin and grid array)
F	Flat Pack
U	Die
S	SIP
Z	Vertical DIP
W	SOIC
Q	Skinny DIP (300 mil) Ceramic
R	Skinny DIP (300 mil) Plastic

Temperature Range

C	Commercial
I	Industrial
M	Military

New System (after 1/87)
Prefix Device Suffix


EDI 8 M C 100 C B
Prefix
Product Group
Product Type
Technology
Speed
Packaging
Temperature Range

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

ELECTRONIC DESIGNS INCORPORATED (continued)

New Numbering System—Monolithics (Products Introduced After 9/1/89)

Product Group

8	SRAM
9	Special/Custom

Word Width

1	1 bit wide
8	8 bits wide

Word Depth

01	1K
32	32K
128	128K
1M	1MEG

Technology

C	CMOS, 4T STD Power
P	CMOS, 4T Low Power
H	CMOS, 6T STD Power
L	CMOS, 6T Low Power

Speed

20	20 ns
200	200 ns

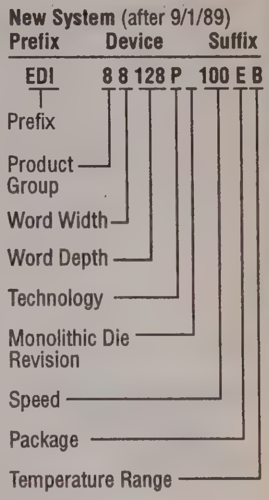
Package

C	Sidebrazed DIP, 600 mils wide
D	CERDIP, 600 mils wide
E	CERDIP, 300 mils wide
F	Flatpack
K	CERDIP, 400 mils wide
L	LCC
N	CSQJ
Q	Sidebrazed DIP, 300 mils wide
T	Sidebrazed DIP, 400 mils wide
V	Sidebrazed DIP, 900 mils wide

Temperature Range

C	Commercial
I	Industrial
M	Military
B	Military, MIL STD 883C, Class B

New System (after 9/1/89)


Prefix
Device
Suffix
EDI
8 8 128 P 100 E B
Prefix
Product Group
Word Width
Word Depth
Technology
Monolithic Die Revision
Speed
Package
Temperature Range

New Numbering System—Modules (Products Introduced After 9/1/89)

Product Group

8	SRAM
9	Special/Custom

Product Type

M	Ceramic Substrate
F	FR4 Substrate

Technology

C	CMOS, 4T STD Power
P	CMOS, 4T Low Power
H	CMOS, 8T STD Power
L	CMOS, 8T Low Power

Speed

20	20 ns
200	200 ns

Word Width

1	1 bit wide
8	8 bits wide

Word Depth

01	1K
32	32K
128	128K
1M	1MEG

RAM Component Package

A	PLCC
B	VSOP
C	LCC
M	SOJ
N	CSOJ
P	SOIC

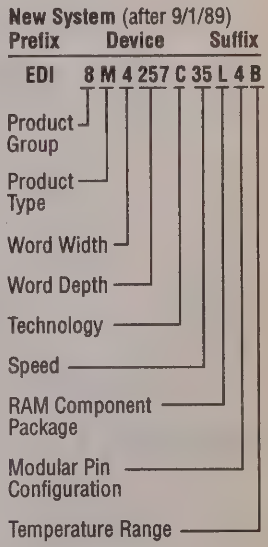
Module Pin Configuration

3	DIP, 300 mil centers
4	DIP, 400 mil centers
6 or –	DIP, 600 mil centers
9	DIP, 900 mil centers
S	SIP
Z	ZIP

Temperature Range

C	Commercial
I	Industrial
M	Military
B	Military, MIL STD 883C, Class B

New System (after 9/1/89)


Prefix
Device
Suffix
EDI
8 M 4 257 C 35 L 4 B
Product Group
Product Type
Word Width
Word Depth
Technology
Speed
RAM Component Package
Modular Pin Configuration
Temperature Range

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

ERICSSON

Prefix

Code	Meaning
P	Ericsson

Family

Code	Meaning
BA	Hybrid Circuit
BD	Bipolar, Digital
BL	Bipolar, Linear
BM	MOS Circuit
BR	Resistor Network, Custom or Standard
RR	Resistor Network, Semi-Custom or Standard

Package

Code	Meaning
N	Plastic DIP
J	Ceramic DIP
CC	Leadless Chip Carrier
QN	Plastic Leaded Chip Carrier
LC	Leaded Chip Carrier
QC	Quad Cerpac
MC	Metal Can
CP	Cerpac – Flat Package
PG	Pin Grid Array
PA	Pad Area Array
SO	Small Outline
SL	Single In-Line
QL	Quad-In-Line

Prefix	Device	Suffix
PB L	3771	Q N

Family (L)

Package (Q N)

EXAR

Prefix

Code	Meaning
XR	Exar

Grade

Code	Meaning
C	Commercial
M	Military Ceramic package and -55°C to 125°C
( )	The absence of C or M Indicates a Commercial Part with Tighter Specs

Package

Code	Meaning
D	Dice
P	Plastic Dual-In-Line
N	Ceramic Dual-In-Line
MD	Plastic SOIC
Q	Quad Package

Prefix	Device	Suffix
XR	567	C P

Grade (C)

Package (P)

EXEL

Exel Designator. All parts start with XL.

Temperature Range

Code	Meaning
S	0°C to +70°C
E	–40°C to +85°C
A	–40°C to +105°C

Basic Part Number

Memory Products start with either 2 or 9.
Logic Devices start with 7.
'C' in the middle of the Part Number indicates a CMOS Device.

Package

Code	Meaning
C	Cerdip
D	Plastic Leaded CC
J	SOIC
P	Plastic DIP
P3	Skinny DIP (0.3")
U	Unpackaged (Die)

Speed*

Usually in nanoseconds for memories.
See Data Sheet.

Special Features

See Data Sheet.

For Example:

XLS2816AP-250
2Kx8 E²PROM, 0°C to 70°C, Plastic, 250 nsec

Prefix	Device	Suffix
XL T	NNNNNP	-SSS/FFFFF

Temperature (T)

Package Type (P)

Speed (SSS)

Special Features (FFFFF)

Note: Fields marked (*) are optional

FUJITSU

(Current)

(Discontinued)

Prefix

Code	Meaning
MB	Micro Block
MBM	Micro Block Modified and Industry Standard Numbers

Performance Variation

Code	Meaning
L	Low Power

Package

Code	Meaning
C	Ceramic
P	Plastic
Z	Cerdip
PF	Flatpack
PSK	Skinny DIP
PZ	Zigzag
PJ	SOJ

Prefix	Device	Suffix
MB	81C100	P

Package (P)
(Order purposes only)

GEC PLESSEY

PLESSEY

Description

Code	Meaning
MJ	N-Channel MOS
ML	MOS Linear w/Gate Protection
MN	MNOS Digital
MP	MOS Digital
MT	MOS Linear (without Gate Protection)

Package

Code	Meaning
CM	Multilead TO-5
DC	Dilmon
DG	Ceramic Dual-In-Line
DP	Plastic Dual-In-Line
EP	Power Stud
FM	Ten Lead Flatpack
GC	Leadless Carrier

Prefix	Device	Suffix
SP	8735B	DG

Description (SP)

Package (DG)

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

GEC PLESSEY (continued)

Prefix

Description	
MJ	N-Channel MOS
ML	MOS Linear w/Gate Protection
MN	MNOS Digital
MP	MOS Digital
MT	MOS Linear (without Gate Protection)
MV	CMOS
NJ	N-Channel MOS
NOM	MNOS Memory Elements and Arrays
TAA, TBA, TDA	Alternate Sourced Consumer Devices
SL	Bipolar Linear
SP	Bipolar Digital

Linearity Error	
7	±0.39%
8	±0.19%
9	±0.097%
10	±0.049%

Tolerance	
1	1%
2	2%

Temperature Range	
A	–55°C to +125°C
AB	–55°C to +110°C
C	0°C to 70°C

Suffix

Package	
CM	Multilead TO-5
DC	Dilmon
DG	Ceramic Dual-In-Line
DP	Plastic Dual-In-Line
EP	Power Stud
FM	Ten Lead Flatpack
GC	Leadless Carrier
GM	Fourteen Lead Flatpack
KM	TO-3
QG	Ceramic Quad-In-Line
QP	Plastic Quad-In-Line
RP	Power Findip
SP	Plastic Single-In-Line

Package	
E	Moulded DIL 0°C to +70°C
BE	Moulded DIP –40°C to +85°C
D	Moulded Small Outline (SO) 0°C to +70°C
J	Ceramic DIL –55°C to +125°C
BJ	Ceramic DIL –40°C to +85°C
CJ	Ceramic DIL 0°C to +70°C
AM	Ceramic Chip Carrier –55°C to +125°C
Q	PLCC 0°C to –70°C

Data Converters

Prefix	Device	Suffix
ZN	432	CJ –10

Temperature Range
Linearity Error

Low Power References

Prefix	Device	Suffix
NN REF	025	C 1

Temperature Range
Initial Tolerance

GENNUM

Prefix

G Gennum

Family	
A	Array
B	Buffer
C	Amplifier
F	Filter
I	Interface
K	Custom
M	Modules
O	Oscillators
P	Power
S	Serial/Sync
T	Transconductance
X	Crosspoints
Y	Other video products
Z	Other video products

Suffix

Temperature/Qualification	
C	Commercial (0°C to 70°C)
E	Extended Industrial (-40°C to 85°C)
I	Industrial (-25°C to 85°C)
M	Military (-55°C to 125°C)

Package/Pins	
CC	Chip
DA	8 pin Plastic DIP, 300 mil
DB	14 pin Plastic DIP, 300 mil
DC	16 pin Plastic DIP, 300 mil
DE	18 pin Plastic DIP, 300 mil
DF	20 pin Plastic DIP, 300 mil
DG	22 pin Plastic DIP, 400 mil
DH	24 pin Plastic DIP, 300 mil
DI	24 pin Plastic DIP, 600 mil
DJ	28 pin Plastic DIP, 300 mil
DK	28 pin Plastic DIP, 600 mil
EA	8 pin Ceramic DIP, 300 mil
EB	14 pin Ceramic DIP, 300 mil
EC	16 pin Ceramic DIP, 300 mil
EE	18 pin Ceramic DIP, 300 mil
EF	20 pin Ceramic DIP, 300 mil
KA	8 pin SOIC, 150 mil
KB	14 pin SOIC, 150 mil
KC	16 pin SOIC, 300 mil
KD	16 pin SOIC, 150 mil
KF	20 pin SOIC, 300 mil
PJ	28 pin PLCC
PM	44 pin PLCC
SA	8 pin SIP, 300 mil
SF	20 pin SIP, Module
SG	32 pin SIP Module
SK	45 pin SIP Module
SN	7 pin SIP, 300 mil

Prefix	Device	Suffix
G X	4104	– C DE

Family
Revision
Temperature/ Qualification
Package

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

GIGABIT LOGIC

GBL

Family

10G	PicoLogic
12G	NanoRam
14G	NanoRam
16G	Analog and Interface
80G	ASIC
90G	Prototyping and Support

Package

C1	Leaded Chip Carrier (68 I/O)
C	C-Leaded Chip Carrier (40 I/O)
L	Leadless Chip Carrier (40 I/O)
L36	Leadless Chip Carrier (36 I/O)
F	Flat Package (36 I/O)
H	Hybrid
X	Unpackaged Die

Temperature Range

K	–40°C to 100°C
M	–55°C to 125°C

Prefix **Device** **Suffix**
XXG **XXXXA (B)–(Y) C**
Family
Revision Level
Temperature Range
Speed
Package

GOLDSTAR

GoldStar GOLD STAR CO.,LTD.

GS	Transistor
GL	Bipolar Linear IC
GLC	CMOS Linear IC
GM	MOS LSI
GD	Bipolar TTL, HC/HCT, Digital MST

Package

P	Plastic
C	Ceramic
E	CERDIP
FT	Flat
PL	LCC
SB	Side Braze
G	Pin Grid Array
S	Surface Mount
X	Dice

Temperature Range

M	Military
I	Industrial
C	Commercial

Prefix **Device** **Suffix**
GLC **555** **P C**
Type
Package
Temperature Range

HARRIS SEMICONDUCTOR

HARRIS SEMICONDUCTOR

Amplifiers

H	Harris
F	Family
FA	Ultra high-speed analog

Temperature Range

C	–55°C to +200°C
I	–55°C to +125°C
M	–25°C to +85°C

Package

B	Small outline, SOIC
J	Ceramic DIP
P	Plastic DIP
Y	Dice

Prefix **Device** **Suffix**
H FA **1100** **I B**
Family
Temperature
Package

Family

A	Analog

Temperature Range

2	–55°C to 125°C
4	–25°C to 85°C
5	0°C to 75°C
7	Dash—7 High Reliability Commercial Product 0°C to 75°C, Includes 96 hr Burn-In
9	–40°C to 85°C

Package

1	Dual-In-Line Ceramic
2	Metal Can
3	Dual-In-Line Plastic
4P	Plastic Leaded Chip Carrier
7	Mini-DIP, Ceramic
SP	Small Outline
0	Chip Form

Prefix **Device** **Suffix**
H A 7 **5147** **–5**
Family
Package
Temperature

RCA Solid State

Family

CA	Linear

Package

D	Dual-In-Line Ceramic
E	Dual-In-Line Plastic
F	Frit-Seal Dual-In-Line Ceramic
Q	Quad-In-Line Plastic
S	Dual-In-Line Formed Lead T0-5
T	T0-5 Style Package
SO	Small Outline Plastic

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

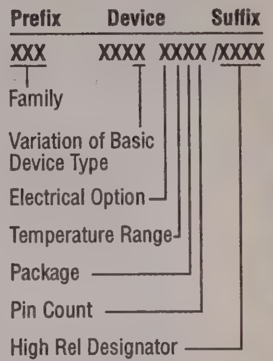
HARRIS SEMICONDUCTOR (continued)

Family
- **ICL** Linear
- **ICM** Microperipheral
- **LM** National Semiconductor Alternate Source

Temperature Range
- **C** Commercial 0°C to 70°C
- **I** Industrial –25°C to 85°C or –40°C to 85°C
- **M** Military –55°C to 125°C

Package
- **B** Small Outline (SOIC)
- **J** Ceramic Dual-In-Line
- **P** Plastic Dual-In-Line
- **T** TO-99, TO-100

Pin Count
- **A** 8
- **B** 10
- **C** 12
- **D** 14
- **E** 16


Prefix
Device
Suffix
XXX
XXXX
XXXX /XXXX
Family
Variation of Basic Device Type
Electrical Option
Temperature Range
Package
Pin Count
High Rel Designator

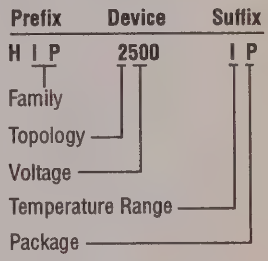
Intelligent Power

Family
- **IP** Intelligent Power

Topology
- **0** Low Side Switch
- **1** High Side Switch
- **2** Half Bridge
- **3** AC/DC Converters
- **4** Full Bridge
- **5** Regulator/Power Supply
- **6** Protection Circuits
- **9** Special Function

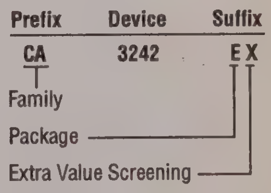
Voltage
Multiply by 10 for capability

Temperature Range
- **A** Automotive –40°C to 105°C
- **C** Commercial 0°C to 70°C
- **I** Industrial –40°C to 85°C
- **M** Military –55°C to 125°C


Prefix
Device
Suffix
H I P
2500
I P
Family
Topology
Voltage
Temperature Range
Package

Family
- **CA** Linear

Package
- **D** Dual-In-Line Ceramic
- **E** Dual-In-Line Plastic
- **F** Frit-Seal Dual-In-Line Ceramic
- **Q** Quad-In-Line Plastic
- **S** Dual-In-Line Formed Lead TO-5
- **T** TO-5 Style Package
- **M** Small Outline Plastic

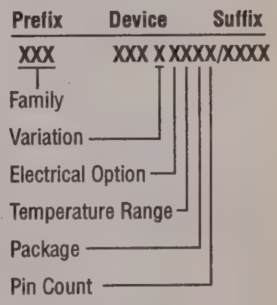

Prefix
Device
Suffix
CA
3242
E X
Family
Package
Extra Value Screening

Family
- **ICL** Linear IC
- **ICM** Microperipheral IC
- **LM** National Semiconductor Alternate Source

Temperature Range
- **C** Commercial 0°C to 70°C
- **I** Industrial –25°C to 85°C or –40°C to 85°C
- **M** Military –55°C to 125°C

Package
- **B** Small Outline IC
- **J** Ceramic Dual-In-Line
- **P** Plastic Dual-In-Line
- **T** TO-99, TO-100

Pin Count
- **A** 8
- **B** 10
- **C** 12
- **D** 14
- **E** 16
- **V** 8 0.200 pin circle, isolated case
- **W** 10 0.230 pin circle, isolated case
- **X** 10 0.230 pin circle, case to pin 5
- **Y** 8 0.200 pin circle, case to pin 4
- **Z** 8 0.230 pin circle, case to pin 5


Prefix
Device
Suffix
XXX
XXX X XXXX/XXXX
Family
Variation
Electrical Option
Temperature Range
Package
Pin Count

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

HARRIS SEMICONDUCTOR (continued)

Special Analog Circuits

Family

FA	Ultra-High-Speed Analog

Temperature Range

C	Commercial	0°C to 70°C
I	Industrial	–40°C to 85°C
M	Military/883	–55°C to 125°C

Package

B	Small Outline IC
J	Ceramic DIP
P	Plastic DIP
Y	Dice

Prefix	Device	Suffix
H FA	1100	1 – B

Family
Temperature
Package

Family

CA	Linear Series
ICM/ICL	(see Intelligent Power, above)

Package

D	Dual-In-Line Ceramic
E	Dual-In-Line Plastic
F	Frit-Seal Dual-In-Line Ceramic
Q	Quad-In-Line Plastic
S	Dual-In-Line Formed-Lead TO-5
T	TO-5 Style Package
M	Small Outline Plastic

Data Converters

Family

A	Analog
C	Communications
D	Digital
I	Interface
M	Memory
PL	Programmable Logic
S	Military/Aerospace

Package:

1	Ceramic DIP
1B	Brazed Seal
2	TO-5
3	Epoxy DIP
4	Leadless Carriers
4P	Plastic Leaded Chip Carrier
5	Ceramic Substrate
7	Mini DIP
9	Flat Pack
9P	Small Outline
0	Chip Form

Temperature Range

1	–55°C to +200°C
2	–55°C to +125°C
4	–25°C to +85°C
5	0°C to +75°C
6	100% 25°C Probe (Dice Only)
7	0°C to +75°C with 96 hour burn-in
8	Dash 8 Program; hi-rel processing
9	–40°C to +85°C
9+	–40°C to +85°C with burn-in

Prefix	Device	Suffix
H I 3	7151	–5

Family
Package
Temperature

Data Converters (continued)

Family

CA	Linear ICs

Package

D	Ceramic DIP
E	Plastic DIP
F	CERDIP
H	Chip
J	3-Layer Ceramic Leadless Chip Carrier
K	Ceramic Flat Package
L	Single Layer Ceramic Leadless Chip Carrier
M	Small-Oultine Plastic Package
Q	Plastic-Chip-Carrier-Package

Prefix	Device	Suffix
CA	3306	A E

Device Type
Electrical Option
Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

HARRIS SEMICONDUCTOR (continued)

Family

AD	Analog Devices Alternate Source
ADC	National Semiconductor Alternate Source
DG	Siliconis Alternate Source
ICL	Linear IC
ICM	Microperipheral IC
IH	Analog Switch Family
IM	MIcrocontroller IC

Temperature Range

C	Commercial: 0°C to 70°C
I	Industrial: –25°C to 85°C or –40°C to 85°C (Specified on Datasheet)
M	MIlitary

Package

S	SOIC
D	Ceramic (Side-Brazed) Dual-In-Line
F	Ceramic Flat-Pack
I	16-Pin (.6 x .7 Pin Spacing) Hermetic Hybrid DIP
J	CERDIP Dual-In-Line
L	Leadless Ceramic Quad-Pack
M	Plastic Quad-Pack (PQFP)
P	Plastic Dual-In-Line
S	TO-52
T	TO-5 (also TO-78, TO-99, TO-100)
U	TO-72 (also TO-18, TO-71)
Z	TO-92
W	Wafer
D	Dice

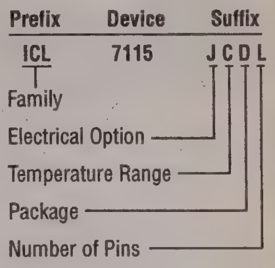
Exceptions to Package Designations

AD (D/A Converter) Series

H	TO-52
D	CERDIP Ceramic Dual-In-Line
N	Epoxy Dual-In-Line
R	TO-92

Pin Count

A	8	J	32
B	10	K	35
C	12	L	40
D	14	N	18
E	16	P	20
F	22	R	3
G	24	W	10 (0.230" pin circle, isolated case)
H	42		
I	28	44	44


Prefix
Device
Suffix
ICL
7115
J C D L
Family
Electrical Option
Temperature Range
Package
Number of Pins

Analog Switches and Multiplexers

Family

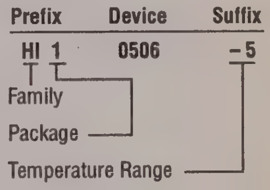
HI

Package

1	Interface
2	Memory
3	Programmable Logic
4	Leadless Chip Carrier
9	Flat Pack
9P	SOIC
0	Chip Form

Temperature Range

–2	–55°C to +125°C
–4	–25°C to +85°C
–5	–25°C to +85°C
–6	0°C to +75°C
–8	25°C Dice Probe
–9	–40°C to +85°C
883	Mil Std


Prefix
Device
Suffix
HI 1
0506
–5
Family
Package
Temperature Range

Microcontrollers, Microprocessors & Microcomputers

Family

CDP68HC05
CDP618CRAC

Package

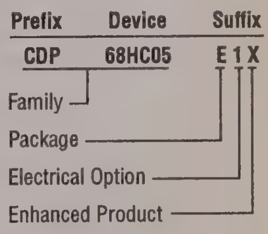
D	Dual-In-Line Sidebrazed Ceramic DIP
E	Dual-In-Line Plastic DIP
M	Small Outline Plastic SOP
N	Plastic Leaded Chip Carrier PLCC
Q	Metric Plastic Quad Flatpack MPQFP
H	Chip (When Applicable)
Z	Single-In-Line Package (SIP)

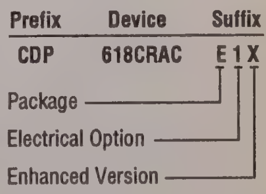
Electrical

1
2
4

Enhanced Report

X	Enhanced Product Screening i.e., burn-in (optional for D, E package types)


Prefix
Device
Suffix
CDP
68HC05
E 1 X
Family
Package
Electrical Option
Enhanced Product


Prefix
Device
Suffix
CDP
618CRAC
E 1 X
Package
Electrical Option
Enhanced Version

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

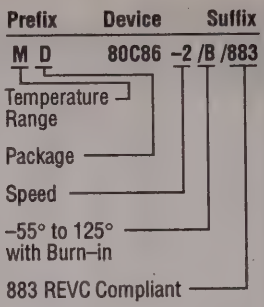
HARRIS SEMICONDUCTOR (continued)

Family
80CXXX Microprocessors
- **C** 0°C to +70°C
- **I** –40°C to +85°C
- **M** –55°C to +125°C
- **X** +25°C

Package
- **P** Plastic DIP
- **D** Ceramic DIP
- **X** Unpackaged Device
- **R** Leadless Chip Carrier
- **S** Plastic Leaded Chip Carrier
- **G** Pin Grid Array

Speed
µProcessors
- **Blank** 5MHz
- **2** 8MHz
- **–12** 12MHz
- **–25** 25MHz

Peripherals
- **5** 5MHz
- **Blank** 8MHz


Prefix
Device
Suffix
M D
80C86
-2 /B /883
Temperature Range
Package
Speed
–55° to 125° with Burn–in
883 REVC Compliant

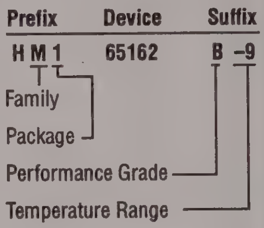
Memories

Family
- **M** Memory

Package
- **1** Ceramic DIP
- **1B** Brazed Seal
- **3** Plastic DIP
- **4** Leadless Carriers
- **5** Ceramic Substrate
- **6** Slimline
- **0** Chip Form

Performance Grade
- **B** High Performance
- **C** Relaxed Specification
- **X** Very High Speed

Temperature Range
- **2** –55°C to +125°C
- **5** 0°C to +70°C
- **6** 100% 25° C Probe (Dice Only)
- **8** –55°C to +125°C With Burn-In
- **9** –40°C to +85°C With Burn-In
- **/883** Fully compliant to Mil-Std-883C

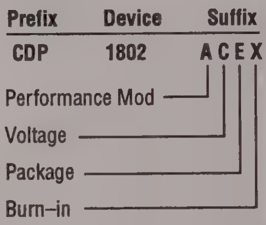

Prefix
Device
Suffix
H M 1
65162
B -9
Family
Package
Performance Grade
Temperature Range

Peripherals
Micro/Memory - 1800 Series

Family
- **CDP** Circuit Digital Processor

Package
- **E** Plastic
- **F** Frit
- **D** Ceramic
- **Q** PCC
- **M** SOP

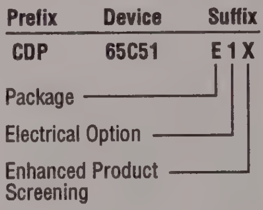
Voltage
- **–** 10 Volts
- **C** 5 Volts


Prefix
Device
Suffix
CDP
1802
A C E X
Performance Mod
Voltage
Package
Burn–in

CDP65C51 Series

Family
GD65C51

Package
- **D** Dual-In-Line Sidebrazed Ceramic DIP
- **E** Dual-In-Line Plastic DIP
- **M** Small Outline Plastic SOP
- **N** Plastic Leaded Chip Carrier PLCC
- **Q** Metric Plastic Quad Flatpack MPQFP
- **H** Chip (When Applicable)
- **Z** Single-In-Line (SIP)


Prefix
Device
Suffix
CDP
65C51
E 1 X
Package
Electrical Option
Enhanced Product Screening

Peripherals (continued)

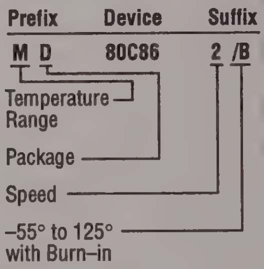
Family
80CXX

Temperature Range
- **C** 0°C to +70°C
- **I** –40°C to +85°C
- **M** –55°C ti +125°C
- **X** +25°C

Package
- **P** Plastic DIP
- **D** Ceramic DIP
- **X** Unpackaged Device
- **R** Leadless Chip Carrier
- **S** Plastic Leaded Chip Carrier
- **G** Pin Grid Array

Speed
µProcessors
- **Blank** 5MHz
- **2** 8MHz

Peripherals
- **5** 5MHz
- **Blank** 8MHz


Prefix
Device
Suffix
M D
80C86
2 /B
Temperature Range
Package
Speed
–55° to 125° with Burn–in

Manufacturer Device Identification | **Part Number — Prefix** | **Suffix**

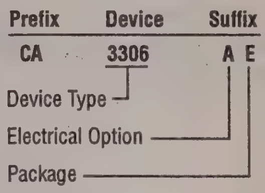
HARRIS SEMICONDUCTOR (continued)

Family

CA	Linear ICs

Package

D	Ceramic DIP
E	Plastic DIP
F	CERDIP
J	3-Layer Ceramic Leadless
K	Ceramic Flat Package
L	Single Layer Ceramic Leadless Chip Carrier
M	Small-Outline Plaxtic Package
Q	Plastic-Chip-Carrier Package


Prefix
Device
Suffix
CA
3306
A E
Device Type
Electrical Option
Package

Family

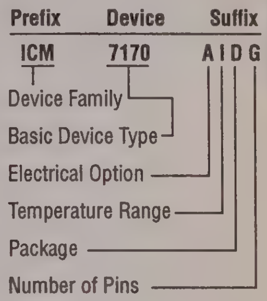
AD	Analog Device Alternate Source
ADC	National Semiconductor Alternate Source
DG	Siliconix Alternate Source
CL	Linear IC
ICM	Microperipheral IC
IH	Analog Switch Family
M	Microcontroller IC

Temperature Range

C	0°C to +70°C
I	Industrial +25°C to 85°C or –40°C to 85°C (Specified on Data Sheet)

Package

B	SOIC
D	Ceramic (Side-Brazed) Dual-In-Line
F	Ceramic Flat-Pack
I	16-Pin (6 x 7 pin spacing) Hermetic Hybrid DIP
J	CERDIP Dual-In-Line
L	Leadless Ceramic Quad-Pack
M	Plastic Quad-Pack (PQFP)
P	Plastic Dual-In-Line
S	TO-52
T	TO-5 (also TO-78, TO-59, TO-100)
U	TO-72 (also TO-18, TO-71)
Z	TO-92
W	Wafer
D	Dice


Prefix
Device
Suffix
ICM
7170
A I D G
Device Family
Basic Device Type
Electrical Option
Temperature Range
Package
Number of Pins

Digital Signal Processing

Family

MU	Multiplexer
MA	Multiplier/Accumulator

Package

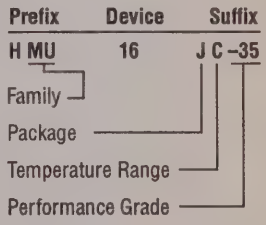
J	PLCC
G	PGA

Temperature Range

C	Commercial 0°C to 70°C
I	Industrial –40°C to 85°C
M	Military –55°C to 125°C

Performance Grade

–35	35ns
–45	45ns


Prefix
Device
Suffix
H MU
16
J C –35
Family
Package
Temperature Range
Performance Grade

Family

SP	Signal Processing

Device Type

43	Filters
45	Special Function
95	Building Blocks

Package

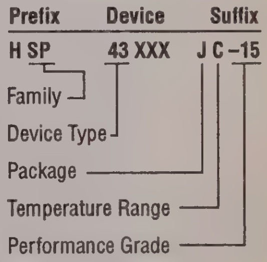
J	PLCC
G	PGA
D	CDIC
P	DIP
PX	Plastic Skinny DIP

Temperature

C	Commercial 0°C to 70°C
I	Industrial –40°C to 85°C
M	Military –55°C to 125°C

Performance Grade

–15	15MHz
–20	20MHz
–25	25 or 25.6MHz
–30	30MHz
–33	33MHz
–40	40MHz


Prefix
Device
Suffix
H SP
43 XXX
J C –15
Family
Device Type
Package
Temperature Range
Performance Grade

When contacting suppliers, say you saw it in IC MASTER

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

HARRIS SEMICONDUCTOR (continued)

Telecommunications

Family
- A Analog
- C Communications
- D Digital
- F Filters
- I Interface
- M Memory
- V Analog High Voltage
- Y Analog Hybrids

Package
- 1 Dual-In-Line Ceramic
- 2 Metal Can
- 3 Dual-In-Line Plastic
- 4 Leadless Chip Carriers (LCC)
- 4P Plastic Leaded Chip Carriers (PLCC)
- 7 Mini-DIP, Ceramic
- 0 Chip Form

Temperature
- 1 0°C to +200°C
- 2 –55°C to +125°C
- 4 –25°C to +85°C
- 5 0°C to +75°C
- 6 100% +25°C Probe (Dice Only)
- 7 Dash-7 High Reliability Commercial Product 0°C to +75°C
- 8 Dash-8 Program HA2-2520-8 (example only)
- 9 –40°C ti +85°C

Prefix	Device	Suffix
H C 3	5502B	–5

Family
Package
Temperature Range

Package/Option
- D Dual-In-Line Sidebrazed Ceramic DIP
- E Dual-In-Line Plastic DIP
- J Leadless Chip Carrier
- M Small Outline Plastic SOP
- N Plastic Leaded Chip Carrier PLCC
- Q Metric Plastic Quad Flatpack MPQFP
- H Chip (When Applicable)
- X Enhanced Product Screening i.e., Burn-In (optional for D, E Package Types)
- Z Single-In-Line Package (SIP)
- 1,2,4 Electrical Option

Revision
- A 1st
- B 2nd, etc.

Prefix	Device	Suffix
C D	6264	A D

Revision
Package

High Reliability

CA300 Linear Series

Package
- D Dual-In-Line Metal-Seal Ceramic
- F Dual-In-Line Frit-Seal Ceramic
- T TO-5 Metal Can
- S DIL Formed TO-5
- J Leadless Chip Carrier

Prefix	Device	Suffix
C A	3130	T /3

Package
Reliability Screening Level

High Reliability (continued)

CDM, CDP, CMM, GP CMOS LSI

Revision
- A 1st
- B 2nd, etc.

Voltage
- C 5-Volt Device
- – 10-Volt Device

Package
- D Dual-In-Line
- J Leadless Chip Carrier
- K Flatpack

Product Assurance Level
- 3 Modified Class B
- IRZ Modified Class S Rad-Hard 10^5

Prefix	Device	Suffix
CDM	6264	A C D /3

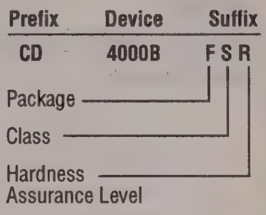
Revision
Voltage
Package
Product Assurance Level

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

HARRIS SEMICONDUCTOR (continued)

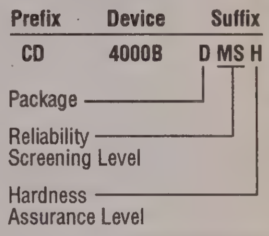
CD4000 Logic

Package
- **K** Flat Pack
- **Q** Flat Pack (Mil-M-38510 Designator N or T)
- **F** Dual-In-Line (Mil-M-38510 Designator C or E)


Prefix
Device
Suffix
CD
4000B
F S R
Package
Class
Hardness Assurance Level

CD4000 Mil-Std-883

Revision
- **D** Dual-In-Line
- **Q** Flat Pack (38510 Outline)
- **K** Flat Pack (Non 38510)
- **F** Dual-In-Line Frit Seal Ceramic
- **J** Leadless Chip Carrier Ceramic

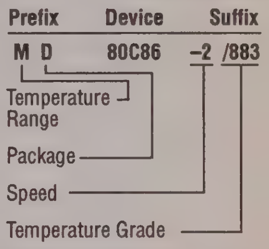

Prefix
Device
Suffix
CD
4000B
D MS H
Package
Reliability Screening Level
Hardness Assurance Level

80CXX Family

Temperature Range
- **M** –55°C to 125°C

Package
- **D** Ceramic DIP
- **R** Leadless Chip Carrier
- **G** Pin Grid Array

Speed

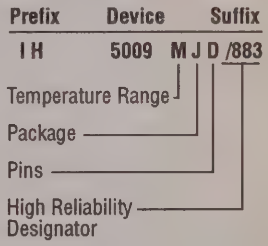

Prefix
Device
Suffix
M D
80C86
–2 /883
Temperature Range
Package
Speed
Temperature Grade

I Series

Temperature Range
- **M** –55°C to 125°C

Package
- **A** TO-237
- **C** TO-220
- **D** Ceramic Sidebrazed Dual-In-Line
- **E** Small TO-8
- **F** Ceramic Flat Pack
- **H** TO-66
- **I** 16 Pin (.6 x .7 Pin Spacing) Hermetic Hybrid DIP
- **J** CERDIP Dual-In-Line
- **K** TO-3
- **L** Leadless Ceramic
- **S** TO-52
- **T** TO-5 Type (also TO-78, TO-99, TO-100)
- **U** TO-72 Type (Also TO-18, TO-71)
- **V** TO-39
- **Z** TO-92

No. of Pins
- **A** 8
- **B** 10
- **C** 12
- **D** 14
- **E** 16
- **F** 22
- **G** 24
- **H** 42
- **I** 28
- **J** 32
- **K** 35
- **L** Leadless Ceramic
- **S** TO-52
- **T** TO-5 Type (also TO-78, TO-99, TO-100)
- **U** TO-72 Type (Also TO-18, TO-71)
- **V** TO-39
- **Z** TO-92


Prefix
Device
Suffix
I H
5009
M J D /883
Temperature Range
Package
Pins
High Reliability Designator

Manufacturer Device Identification	Part Number Prefix	Suffix

HARRIS SEMICONDUCTOR (continued)

No. of Pins

A	8
B	10
C	12
D	14
E	16
F	22
G	24
H	42
I	28
J	32
K	35
L	40
M	48
N	18
P	20
Q	2
R	3
S	4
T	6
U	7
V	8 (0.200" Pin Circle Isolated Case)
W	10 (0.230" Pin Circle Isolated Case)
Y	8 (0.200" Pin Circle Case to Pin 4)
Z	10 (0.230" Pin Circle Case to Pin 5)

High Reliability Designator

JM38510-XXXXX-XXX	Mil-M-38510 Device
883C	Mil-STD-883C Screened Device
HR	High Reliability Device
BR	Cost Effective High Reliability Device
BI	Burn-In Only Process Flow

Exceptions to Package Type Designators

DG Series

A	10-Pin Metal Can
L	14-Pin Flat Pack
P	Ceramic (Special order Only)
K	CERDIP

AD Series

D	20, 18, 16 or 14
H	3 Pin
N	20, 18, 16 or 14

HITACHI

Type

HA	Analog
HD	Digital
HM	Memory (RAM)
HN	Memory (NVM)
HG	ASIC
HB	Memory Module
HL	Optoelectronic (Laser Diodes/LED)
HR	Optoelectronic (Fiber Optic)
PF	RF Power Amplifier

Package

P	Plastic DIP
C	Ceramic DIP
CP	Plastic Leaded Chip Carrier
FP	Flat Plastic Package
SO	Small Outline Package
PG	Pin Grid Array
S	Shrink Type Plastic DIP
CG	Glass Seated Ceramic Leadless Chip Carrier
G	CERDIP

Prefix	Device	Suffi
HM	472114	A

Model No.

Modification

Package

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

HOLT INTEGRATED CIRCUITS

Prefix

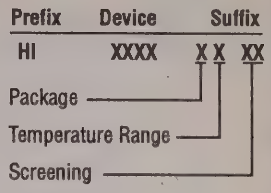
HI	Holt

Package

C	Ceramic DIP
D	Cerdip DIP
S	Leadless Chip Carrier
L	Leaded Ceramic Chip Carrier
P	Plastic DIP
J	Plastic J-Lead (PLCC)
R	Ceramic J-Lead
T	TO Can
U	J-Lead CerQuad
Q	Quad CerPak

Temperature Range

M	Military
S	Ceramic Leadless Chip Carrier


Prefix
Device
Suffix
HI
XXXX
X X XX
Package
Temperature Range
Screening

HUALON

Prefix

HM	HMC Standard ICs

Suffix

L	Low Power
ABC...,	Revision

Package

—	Plastic DIP
J	Cerdip
S	Ceramic Side Braze
B	Chip on Board
H	Chip
F	Flat Pack
T	TO-92
G	Pin Grid
K	Skinny DIP
L	PLCC
M	Small Outline

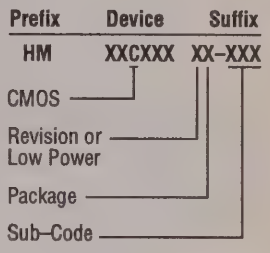
Sub Code

DRAM and SRAM

35	35 ns
100	100 ns
120	120 ns

Other Product

1, 2, 3	Different Specs


Prefix
Device
Suffix
HM
XXCXXX
XX–XXX
CMOS
Revision or Low Power
Package
Sub–Code

HUGHES AIRCRAFT

Prefix

H	Hughes

Product Flow/Temp. Range

C	Commercial/0°C to 70°C
I	Industrial/ –40°C to 85°C
B	Military High Rel/ –55°C to 125°C

Qualifier

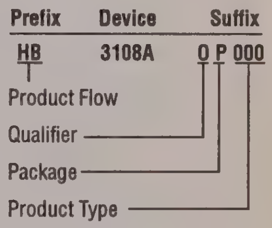
C	Max. 7V Operation
O	Greater than 7V

Product Type

000	Standard
XXX	Selected

Package

P	Plastic DIP
D	Ceramic DIP
H	Dice
L	Leadless Chip Carrier
Y	Cerdip
Q	Quad Pack
F	Flat Pack
G	Pin Grid Array
J	Ceramic J-Bend


Prefix
Device
Suffix
HB
3108A
0 P 000
Product Flow
Qualifier
Package
Product Type

HYUNDAI

Prefix

HY	Hyundai

Family

51	DRAM
53	DRAM
61	SRAM
62	SRAM
63	SRAM
27	EPROM
93	EEPROM (Serial I/O)
28	EEPROM Parallel I/O)

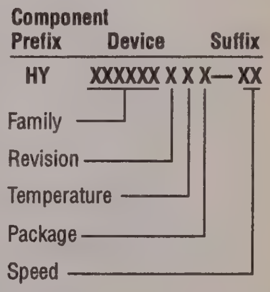
Component

Temperature Range and Power

—	0°C to 70°C, Standard Power
M	0°C to 70°C, Medium Power
L	0°C to 70°C, Low Power
LL	0°C to 70°C, Low Low Power
E	–40°C to85°C, Standard Power

Package

S	Plastic DIP, 300 mil
P	Plastic DIP, 600 mil
J	Plastic SOJ, 300 mil
F	SOP 150 mil SOP 330 mil Plastic LCC 330 mil
T	Thin SOP 330 mil


Component
Prefix
Device
Suffix
HY
XXXXXX X X X— XX
Family
Revision
Temperature
Package
Speed

Manufacturer Device Identification	Part Number Prefix	Suffix

HYUNDAI (continued)

Speed

25	25 ns	**80**	80 ns
30	30 ns	**85**	85 ns
35	35 ns	**10**	100 ns
60	60 ns	**12**	120 ns
70	70 ns	**15**	150 ns

Module

Revision

A	First
Blank	None

Speed		**Speed**	
60	60 ns	**60**	60 ns
70	70 ns	**70**	70 ns
80	80 ns	**80**	80 ns
10	110 ns	**10**	110 ns
12	120 ns	**12**	120 ns

Module Prefix	Device	Suffix
HYM	XXXXXX X X	XX

Family
Revision
Connector Type
Speed

IDEAL SEMICONDUCTOR

ISI

Prefix	Device	Suffix
ISI	XXXXX	X XX

Family
Package
Speed

ILC DATA DEVICE

DDC
ILC DATA DEVICE CORPORATION

Family

ADC	Analog to Digital
BUS	Data Bus Device
DAC	Digital to Analog
DDAC	Deglitched, Digital–to–Analog
DRC	Digital to Resolver
DSC	Digital to Synchro
DTC	LVDT/RVDT–to–Digital
HDSC	Hybrid Digital to Synchro or Resolver
HDP	Hybrid Data Processor
HMSDC	Hybrid Multiplexed Synchro to Digital
HSCT	Hybrid Solid–State Control Transformer
HSDC	Hybrid Synchro to Digital
IDC	Inductosyn to Digital
MSDC	Multiplexed Synchro to Digital
PWR	Power
RDC	Resolver to Digital
SBA	Synchro Booster Amplifier
SDC	Synchro to Digital
SH	Sample and Hold
TD	Torque Driver
TH	Track and Hold
SSP	Solid-State Power Controllers

Converter Resolution

-6	6-Bits
-8	8-Bits
-10	10-Bits
-11	11-Bits
-12	12-Bits
-14	14-Bits
-16	16-Bits

Temperature Range

1	–55°C to 125°C
2	–25°C to 85°C
3	0°C to 70°C

Voltage Range (Synchro Converters Only)

-H	90V at 400 Hz
-M	26V at 400 Hz
-L	11.8V at 400 Hz
-6	90V at 60Hz

Prefix	Device	Suffix
SDC	145 7 0	1 0 2

Family
Base Family Code
Extended Family Code
Input Option
Temperature
Reliability
Accuracy

INTEGRATED DEVICE TECHNOLOGY

Integrated Device Technology, Inc.

Family

29	MSI Logic
39	Bit-Slice Microprocessor and MSI Logic
49	Bit-Slice Microprocessor and MSI Logic
54/74	MSI Logic
61	Static RAM
71	Static RAM (Proprietary)
72	Digital Signal Processing
79	RISC Components
7M/8M	Subsystems Modules (Hermetic)
7MP/8MP	Subsystems Modules (Plastic)

Power

L or LA	Low Power
S or SA	Standard Power

Package

P	Plastic DIP
TP	Plastic THINDIP
TD	THINDIP (CERDIP)
TC	THINDIP (Sidebraze)
D	CERDIP
C	Ceramic Sidebraze
XC	Ceramic Sidebraze Shrink-DIP
G	Pin Grid Array
SO	Plastic Small Outline IC
J	Plastic Leaded Chip Carrier
L	Leadless Chip Carrier
XL	Fine-Pitch Leadless Chip Carrier
ML	Medium-Pitch Leadless Chip Carrier
E	Cerpack
F	Flatpack
U	Die

Temperature Range

Blank	Commercial (0°C to 70°C)
B	Military (–55°C to 125°C, compliant to MIL-STD-883, Class B)

Prefix	Device	Suffix
IDT71	681 LA	35 C B

Power
Speed
Package
Temperature Range

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

INTEL

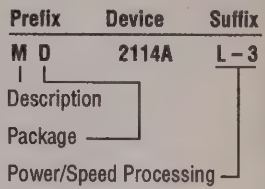
Description
- **M** Indicates Military Operating Temperature Range
- **I** Indicates Industrial Grade
- **J** Indicates a JAN qualified device, but is for internal identification purposes only. All JAN devices must be ordered by M38510 part number (Example: M38510/42001 BQB), and will be marked in accordance with MIL-M-38510 specifications.

- **P** Plastic Package
- **R** Hermetic Package, Leadless Chip Carrier
- **X** Unpackaged Device

Examples:

D2147H1	High Speed 4096x1-Bit Static Ram (35ns, 180/30mA)
C8080A2	8080A Microprocessor with 1.5 s cycle time, hermetic package Type C, commercial temperature range
MD8080A/B	8080A Microprocessor, hermetic package Type D, military temperature range, MIL–STD 883 Level B processing*

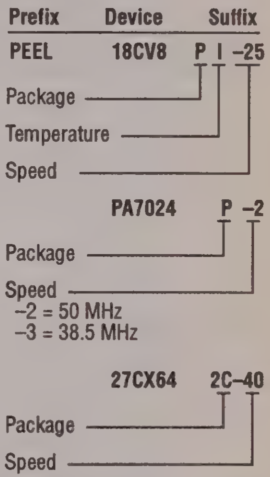
* On military devices, B suffix indicates MIL–STD 883 Level B processing.


Prefix
Device
Suffix
M D
2114A
L – 3
Description
Package
Power/Speed Processing

INTERNATIONAL CMOS TECHNOLOGY

Package Type
- **P** Plastic DIP
- **C** Ceramic DIP
- **S** SO8 turned pin-out
- **K** SO8
- **J** PLCC

Temperature Range
- **—** Commercial 0°C to 70°C
- **I** Industrial –40°C to 85°C
- **M** Military –55°C to 125°C
- **E** Extended cycle endurance (100k cycles)


Prefix
Device
Suffix
PEEL
18CV8
P I -25
Package
Temperature
Speed
PA7024
P -2
Package
Speed
–2 = 50 MHz
–3 = 38.5 MHz
27CX64
2C–40
Package
Speed

INTERNATIONAL MICROCIRCUITS

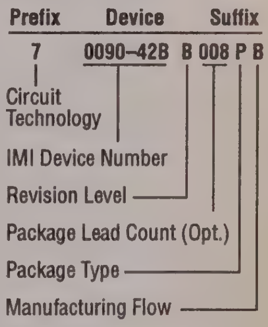
Circuit Technology
- **4** Metal Gate CMOS, Single Metal, 8µ
- **7** Silicon Gate CMOS, Double Metal, 1.5µ
- **K** Silicon Gate CMOS, Double Metal, 1.0µ
- **SC** System Clock Chip

Revision Level—Serialized
- **A** First Design

Package Type
- **P** Plastic DIP
- **C** Cerdip
- **L** Chip Carrier, Ceramic Leadless
- **F** Flat Pack
- **D** No Package (Die)
- **S** Side Brazed
- **Q** Plastic Leaded Pin Grid Array
- **G** Ceramic Pin Grid Array
- **X** SOIC
- **Y** SSOIP

Temperature Range
- **NS** Special
- **B** 0°C to +70°C
- **S** Prototype Part
- **A** –25°C to +85°C
- **T** –55°C to +125°C
- **K** MIL-STD-883-5004

Manufacturing Flow
- **1** Special
- **B** Commercial 0°C to +70°C
- **S** Prototype Part
- **T** Military Operating Range -55°C to +125°C
- **Q** Military Visual (Die)
- **G** Commercial Visual (Die)


Prefix
Device
Suffix
7
0090–42B
B 008 P B
Circuit Technology
IMI Device Number
Revision Level
Package Lead Count (Opt.)
Package Type
Manufacturing Flow

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

IXYS

Prefix	
IX	IXYS

Type

C	Current Mirror
DP	Digital PWM Controller
MS	Microstepping Control
SE	Shaft Encoder Interface
BD	Bridge Driver
LD	Low Side Driver
ID	Industrial Driver
PS	Power Supply Control

Package

P	18-Pin Plastic DIP
D	18-Pin Ceramic DIP
L	Leadless Chip Carrier

Temperature

C	0°C to 70°C
I	–40°C to 85°C
M	–55°C to 125°C

Optional Processing

—	Standard
B	Burn-in

Prefix **Device** **Suffix**
IX DP 610 P C –
IXYS
Type
Package
Temperature Range
Processing

Prefix **Device** **Suffix**
IX CP 35M 35
Package
Current (MA)
Voltage (V)

JAN NOMENCLATURE

J	JAN Qualified Device
M38510	Military Designation

Device
The "Slash" numbering signifies the specification and specifies the device type. See Military Parts Directory. Note: The J or JAN prefix is very important. If it is not there it is not a JAN device.

Processing

S	Level S
B	Level S

Package

A	1/4" x 1/4" Flat Pack, 14-Pin
B	1/8" x 1/4" Flat Pack, 14-Pin
C	1/4" x 3/4" Dual-In-Line, 14-Pin
D	1/4" x 3/8" Flat Pack, 14-Pin
E	1/4" x 7/8" Dual-In-Line, 16-Pin
F	1/4" x 3/8" Flat Pack, 16-Pin
G	8-Lead Can
H	1/4" x 1/4" Flat Pack, 10-Lead
I	10-Lead Can
J	1/2" x 1 1/4" Dual-In-Line, 24-Pin
K	3/8" x 5/8" Flat Pack, 24-Pin
L	1/4" x 1/4" Dual-In-Line, 24-Pin
M	12-Lead Can
P	1/4" x 3/8" DIP, 8-Pin
Q	9/16" x 2 1/16" Dual-In-Line, 40-Pin
R	1/4" x 1 1/16" DIP
S	1/4" x 1/2" Flat Pack
X	3-Lead Can
Y	2-Lead TO-3 Can
Z	1/4" x 3/8" Flat Pack, 24-Pin
2	20-Terminal LCC 0.350" x 0.350"

Lead Finish

A	Kovar or Alloy 42, with Hot Solder Dip
B	Kovar or Alloy 42, with Bright Acid Tin Plate
C	Kovar or Alloy 42, with Gold Plate
X	Any Finish

Prefix **Device** **Suffix**
JM38510 /XXX B C B
Processing
Package
Lead Finish

LANSDALE SEMICONDUCTOR, INC.

(Current)

AL
FL
HL
IL
ML
NL
RL
SL
TL

Package

A	14-Lead Flat Pack
B	14-Lead Flat Pack
C	14-Lead Dual Inline
D	14-Lead Flat Pack
E	16-Lead Dual Inline
F	16-Lead Flat Pack
G	8-Lead Can
H	10-Lead Flat Pack
I	10-Lead Can
J	24-Lead Dual Inline
K	24-Lead Flat Pack
L	24-Lead Dual Inline

Prefix **Device** **Suffix**
ML 54121 C 1
Package
High Reliability Processing (Optional)

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

LANSDALE SEMICONDUCTOR, INC. (continued)

(Product Marketing)

Package

M	12-Lead Can
P	8-Lead Dual Inline
Q	40-Lead Dual Inline
R	20-Lead Dual Inline
S	20-Lead Flat Pack
V	18-Lead Dual Inline
W	22-Lead Dual Inline
Y	28-Lead Dual Inline
3	20-PIN Leadless Chip Carrier

Lead Finish

A	Solder DIP
B	Matte Tin
C	Gold

Prefix	Device	Suffix
ML	54121	/B C A

883 Class B
Package
Lead Finish

LATTICE SEMICONDUCTOR CORP.

Family
pLSI1016
isPLSI1016
GAL16V8B

Power

Blank	Standard
L	Low Power
Q	1/4 Power

Package

D	Cerdip
P	Plastic DIP
J	PLCC (J Lead)
R	Ceramic LCC
Q	PQFP

Speed

MHz	(pLSI and ispLSI)
ns	(GAL)

Prefix	Device	Suffix
XXXXXXX	XX X X X	/883C

Family
Speed
Power
Package
Temperature
MIL Process

LEVEL ONE

LX	Level One

Product Type

T	Transceiver
P	Peripheral
C	Crystal

Package

N	Dual In-Line Plastic
J	Dual In-Line Ceramic
P	Plastic Leaded Chip Carrier
T	Thin Quad Flat Pack
L	Ceramic Leadless Chip Carrier
S	Small Outline Package

Temperature Range

C	Commercial Range (0°C to 70°C)
I	Industrial Range (–25°C to +85°C)
E	Extended Range (–40°C to +85°C)
M	Military Range (–55°C to +125°C)

Prefix	Device	Suffix
LX T	XXXX	N C

Family
Package
Temperature Range

LINEAR TECHNOLOGY CORPORATION

Description

LT	Linear Technology
LF, LH, LM	Alternate Source to NSC
OP	Alternate Source to PMI
SG	Alternate Source to Silicon General
UC	Alternate Source to Unitrode

Temperature

C	Commercial Range 0°C to 70°C
M	Military Range –55°C to +125°C

Package

D	Side brazed hermetic DIP
H	TO-5, TO-46 can
J	Cerdip
K	TO-3 (Steel)
N	Molded DIP
S	SOIC
P	3 lead molded TO-247
T	3, 5 lead molded TO-220
Z	2, 3 lead molded TO-92

Prefix	Device	Suffix
LT	1001A	C H

Temperature Range
Package Type

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

LOGICAL SOLUTIONS TECHNOLOGY

Prefix

LT	Logical Solutions Technology

Temperature Range

54	Military (–55°C to 125°C)
74	Industrial (–40°C to 85°C)

Suffix

Compatibility

T	TTL
C	CMOS

Logic Function

V	Visibility
C	Control

No. of Active Lines

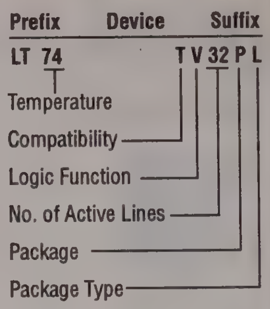
16
32
64

Package

P	Plastic
C	Cerdip

Package

D	Dual In Line
C	Chip Carrier, Leaded
L	Chip Carrier, Leadless
F	Mini Flat Pack
G	Pin Grid Array
S	Small Outline DIP


Prefix
Device
Suffix
LT 74
T V 32 P L
Temperature
Compatibility
Logic Function
No. of Active Lines
Package
Package Type

LOGIC DEVICES INCORPORATED

LOGIC DEVICES INCORPORATED

Prefix

L	Logic Devices

Package

H, D	Hermetic DIP, Side Braze
K	Ceramic Leadless Chip Carrier
G	Pin Grid Ceramic
L	Ceramic Leaded Chip Carier
F, M	Flat Pack Ceramic
C, I	Cerdip
J	Plastic J Lead Chip Carrier
P, N	Plastic DIP
U, V	Plastic SOIC, Gull Wing
W	Plastic SOJ

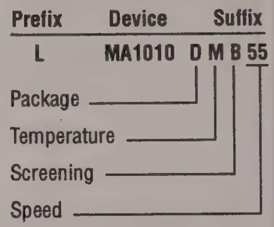
Suffix

Temperature

C	Commercial (0°C to 70°C)
M	Military (–55°C to +125°C)

Screening

—	Commercial Flow
R	48 Hour Burn-In at 125°C
E	Extended Screening
B	MIL-STD-883C Class B Compliant


Prefix
Device
Suffix
L
MA1010
D M B 55
Package
Temperature
Screening
Speed

LSI LOGIC

Suffix

Package

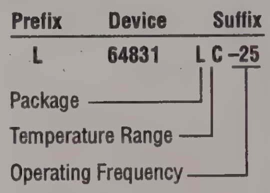
G	Cavity-up Ceramic Pin Grid Array (CPGA)
H	Cavity-down CPGA
L	Cavity-up Ceramic Leaded Chip Carrier (CLDCC)
K	Cavity-down CLDCC
Q	Plastic Quad Flat Pack (PQFP)
N	MQUAD

Temperature Range

C	Commercial (0°C to 70°C)
M	Military (-55°C to 125°C)

Speed

40	40 MHz
33	33.33 MHz
25	(pLSI and ispLSI)
20	(GAL)


Prefix
Device
Suffix
L
64831
L C -25
Package
Temperature Range
Operating Frequency

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

MAXIM INTEGRATED PRODUCTS

MAXIM

Family

100-200	Analog to Digital Converters
200-299	Interface Line Driver/Receivers
300-399	Analog Switches Analog Multiplexers
400-499	Op-Amps
500-599	Digital to Analog Converters
600-699	Power Supply Products
700-799	Microprocessor Peripherals Display Drivers

Temperature Range

C	0°C to 70°C
I	−20°C to 85°C
E	−40°C to 85°C
M	−55°C to 125°C

Screening

/HR	High-Rel
/883	MIL-STD 883

Package

A	TO-237
C	TO-220
D	Ceramic Sidebraze
F	Ceramic Flat-Pack
H	TO-66
J	CERDIP Dual-In-Line
K	TO-3
L	Leadless, Ceramic
M	Plastic Flat Pack
N	Narrow
P	Plastic Dual-In-Line
P	Plastic Dual-In-Line
Q	Plastic Chip Carrier (Quad Pack)
R	Narrow CERDIP
S	Small Outline, Slim (8 or more leads), 150 mil
S	TO-52 (2 or 3 leads)
T	TO-5 Type (also TO-78, TO-99, TO-100)
U	TO-72 Type (also TO-18, TO-71)
V	TO-39
W	Small Outline, Wide (300 mil)
Z	TO-92
/D	Dice
/W	Wafer
-1	On Package Information Indicates Hybrid Circuit

Pins

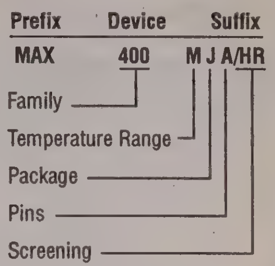
A	8	**P**	20
B	10	**Q**	2
C	12	**R**	3
D	14	**S**	4
E	16	**T**	6
F	22	**U**	60
G	24	**V**	8 (0.200" pin circle, isloated case)
H	44		

Pins

A	8	**P**	20
B	10	**Q**	2
C	12	**R**	3
D	14	**S**	4
E	16	**T**	6
F	22	**U**	60
G	24	**V**	8 (0.200" pin circle, isloated case)
H	44		
I	28	**W**	10 (0.230" pin circle, isloated case)
J	32		
K	35	**Y**	8 (0.200" pin circle, case to pin 4)
L	40		
M	48	**Z**	10 (0.230" pin circle, case to pin 5)
N	18		

4 Letter Suffixes

The first letter of the suffix is used to denote product grade, for example, MAX631ACPA means 5% output accuracy (A), the remaining 3 letters denote temperature range, package type and number of leads.



NOTE: Alternate source devices follow original manufacturers part number and masking system.

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

MICREL

SEMICONDUCTOR
THE INTELLIGENT POWER COMPANY™

Family

MIC	Micrel

Temperature Range

A	Military (–55°C to 125°C)
B	Industrial (–40°C to 85°C)
C	Commercial (0°C to 70°C)

Package

E	Ceramic Quad
F	Flat Pack
J	Ceramic DIP
L	Leadless Chip Carrier
M	SOIC, 150 mil
N	Plastic DIP
Q	Gull Wing Quad Flat Pack
S	SOT-223
T	TO-220
U	TO-263
V	PLCC
WM	Wide 300 mil SOIC
Y	Dice
Z	TO-92

Screening

B	Class B
S	Class S

Qualification

H6	Rad Hard - 1x10^5 rad
Q	Class B or S

Prefix **Device** **Suffix**

MIC **XXXX** **01 A E B Q**

Speed/ Bonding
Temperature Range
Package
Screening
Qualification

MICROCHIP TECHNOLOGY

Microchip™

L	PLCC (Plastic Leaded Chip Carrier)
W	Die in Wafer Form
S	Die in Waffle Pack
K	LCC (Ceramic Leadless Chip Carrier, not thermally enhanced)
SL	Small Outline, 150 mil
SM	Small Outline, 200 mil
SN	Small Outline, 150 mil
TS	Thin Small Outline
SP	Skinny Plastic Carrier
SJ	Skinny Cerdip
SO	Small Outline, 300 mil
CB	COB (Chip-on-Board)
IC	IC Card
JW	Cerdip, windowed—(for microcontrollers only)

Commercial/Industrial
Speed (Memory)

35	35 ns
40	40 ns
45	45 ns
55	55 ns
70	70 ns
90	90 ns
10	100 ns
12	120 ns
15	150 ns
17	170 ns
20	200 ns
25	250 ns

Frequency (DSP)

—	20.5 MHz
14	14.4 MHz
25	25.6 MHz
32	32.8 MHz

Crystal Designation

LP	4 ns
RC	1µs
XT	1µs
HS	200 ns
-10	400 ns

Temperature Range

—	0°C to 70°C
I	–40°C to 85°C
H	–40°C to 110°C

Commercial/Industrial
Prefix **Device** **Suffix**

XXXXXXXXXX **XX X/XX XXX**

Type
Speed, Frequency or Crystal
Temperature Range
Package
ROM Code or Special Requirements

Prefix **Device** **Suffix**

XX X /X

Access Time
Temperature Range
Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

MICROCHIP TECHNOLOGY (continued)

Package

D	Ceramic Side Brazed Dual In-Line
J	Cerdip (with window if EPROM) - all product except Microcontrollers
JL	Ceramic Leaded Chip Carrier (CLCC)
JN	Cerdip, no window
JW	Cerdip, windowed - for Microcontrollers only
K	LCC (Ceramic Leadless Chip Carrier)
L	PLCC (Plastic Leaded Chip Carrier)
P	Plastic Dual In-Line
PQ	Metric Quad Flat Pack Platic
PT	Thin Quad Flat Pack Plastic
S	Die in Waffle Pack
SF	Sawn Probed Wafer on Film
SJ	Skinny Cerdip
SL	14-Lead Small Outline Narrow Plastic Gull Wing (150 mil Body)
SM	Small Outline Medium Plastic Gull Wing (207 mil Body)
SN	8-Lead Small Outline Narrow Plastic Gull Wing (150 mil Body)
SO	Small Outline Wide Plastic Gull Wing (300 mil Body)
SP	Skinny Plastic Dual In-Line
SS	Shrink Small Outline Plastic (5.3mm .208 Body)
ST	Thin Shrink Small Outline Plastic
SW	Small Outline Large Plastic Gull Wing (330 mil Body)
TS	Thin Small Outline Plastic Gull Wing Type (8 x 20mm)
W	Die in Wafer Form

Standard Military

Lead Finish

A	Solder Dip
B	Matle Tin
C	Gold
X	Any finish above

Package

X	28 Lead Cerdip
Q	Ceramic Side Brazed Dual-In-Line
U	Non-thermally Enhanced LCC
Z	Flat Pack

Screening

B	MIL-STD-883C Compliant (−55°C to 125°C)
M	Commercial Assembly
100%	−55°C to 125°C Electrical Test

Speed
(EPROMS & EEPROMS)

15	150 ns
17	170 ns
20	200 ns
25	250 ns
45	45 ns
55	55 ns
70	70 ns

DSP

25	25.6 MHz
32	32.8 MHz

Military

Prefix	Device	Suffix
EX:	276C512	17 X X X

Speed
Screening
Package
Lead Finish

Prefix	Device	Suffix
EX:	5962-87514	01 X B

Speed
Package
Lead Finish

MICROCHIP TECHNOLOGY (continued)

DESC Military SMD Devices

Lead Finish

A	Solder DIP
B	Matte Tin
C	Gold
X	Any finish above

Package

X	Ceramic
Q	Ceramic Side Braze
U	Non-Thermally Enhanced
Z	Flat Pack
L	PLCC (Plastic Leaded Chip Carrier)
W	Die in Wafer Form
S	Die in Waffle Pack
K	LCC (Ceramic Leadless Chip Carrier, not thermally enhanced)
SL	Small Outline, 150 mil
SM	Small Outline, 200 mil
SN	Small Outline, 150 mil
TS	Thin Small Outline
SP	Skinny Plastic Carrier
SJ	Skinny Cerdip
SO	Small Outline, 300 mil
CB	COB (Chip-on-Board)
IC	IC Card
JW	Cerdip, windowed—(for microcontrollers only)

MICRO NETWORKS

MN Micro Networks

Package

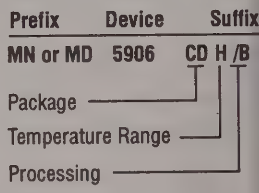
PD	Plastic DIP
PS	Plastic SOIC
CD	Ceramic DIP
CL	Ceramic Leadless

Temperature Range

–, J, K	0°C to +70°C
E	–25°C to +85°C
S, T, H	–55°C to +125°C

Processing

/B	Environmental Stress Screening
/CH	Mil-H-38534 Complaint
/883	Mil-Std-883, Non-Jan, Class M


Prefix
Device
Suffix
MN or MD
5906
CD H /B
Package
Temperature Range
Processing

MICRON SEMICONDUCTOR

MT Micron Semiconductor

Family

4	DRAM
42	DPDRAM (URAM)
43	TPDRAM
5	SRAM
58	Synchronous SRAM

Process Technology

C	CMOS
LC	Low Voltage CMOS

Processing Level/Temp

I	Interim
V	Low Voltage

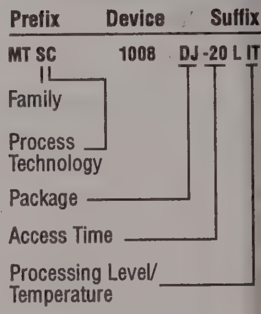
DRAMS

L	Low Power (Extended Refresh)
VL	Low Voltage, Low Power (Extended Refresh)
S	Low Power (Self Refresh)
VS	Low Voltage, Low Power (Self Refresh)

Package

–	DIP
W	DIP (Wide Body)
Z	ZIP
EJ	LCC
DJ	SOJ
DR	SOJ (Reversed)
DL	SOI (Longer)
SG	SOP/SOIC
LG	QFP/TQFP
VG	TSOPI
TG	TSOPII
RG	TSOP (Reversed)
TL	TSOP (Longer)

Current Component Numbering System


Prefix
Device
Suffix
MT SC
1008
DJ -20 L IT
Family
Process Technology
Package
Access Time
Processing Level/ Temperature

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

MICRON SEMICONDUCTOR (continued)

DRAMS

L	Low Power (Extended Refresh)
VL	Low Voltage, Low Power (Extended Refresh)
S	Low Power (Self Refresh)
VS	Low Voltage, Low Power (Self Refresh)

SRAMS

L	Low Volt Data Retention
P	Low Power
LP	Low Power, Low Volt Data Retention
VP	Low Voltage, Low Power
VL	Low Voltage, Low Volt Data Retention
VB	Low Voltage, Low Volt Data Retention, Low Power
E	EPI Wafer

New Component Numbering System

Prefix	Device	Suffix
MT S C	256k4	A1DJ-15LIT

Family

Process Technology

Organization 256k x 4

Data Sheet Defined

Package

Access Time

Processing Level Temperature

Family

4	DRAM
42	OPDRAM (VRAM)
43	TPDRAM
48	Synchronous DRAM
5	SRAM
52	FIFO
56	Latched SRAM
58	Synchronous SRAM

Process Technology

C	CMOS
LC	Low Voltage CMOS

Package

See above.

Processing Level/Temp/Special

Blank	0°C to 70°C
XT	−55°C to 125°C
AT	−40°C to 125°C
IT	−40°C to 85°C

MICRO POWER SYSTEMS

MP	Micro Power

Temperature Range

J, K, L	Commercial/Industrial
S, T, U	Military

Package

D	Ceramic DIP
N	Plastic DIP
H	TO-100 Type Can
S	Surface Mount

Prefix	Device	Suffix
MP	7520	T D XXXX

Level of Performance

Package

Special Processing

MITEL SEMICONDUCTOR

Family

MD	Digital
MH	Hybrid
MT	Telecommunications
CM	Module
MB	Board

Package

C	Ceramic Dual-In-Line (Cerdip)
D	Ceramic Dual-In-Line (Side-Braze)
E	Plastic Dual-In-Line
H	Die in Tray Pack
P	Plastic J-Lead Chip Carrier
S	Small Outline (SO)
W	Die in Probed Wafer Form
Y	Ceramic Leadless Chip Carrier

Prefix	Device	Suffix
MT	8910	A E

Electrical Specification

Package Type

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

MITSUBISHI

M Mitsubishi Integrated Circuit

Temperature Range

5	Industrial/Commercial
9	High Reliability

Series Designation

01-09	CMOS
1	Linear Circuit
3	TTL
10-19	Linear Circuit
32-33	TTL
41-47	TTL
81	P-Channel Al-gate CMOS
84	CMOS
85, 86	PMOS
87	NMOS
88	PMOS
89	CMOS
9	DTL
S0-S2	Schottky TTL

K, T, L, G, C, T, W Industry Standard Specifications for Second Source Devices

Package Style

K	Glass-Sealed Ceramic
P	Molded Plastic
S	Metal-Sealed Ceramic
SP	Molded Plastic (Shrink DIL)
FP	Molded Plastic (Flat)

Package Outline

10	DIL Without Fin and
10	With Quartz Lid
B	Shrink DIL

Prefix **Device** **Suffix**

M5 89 81 S -45

Temperature Range
Original Product Series
Circuit Function
Package
Electrical Charasteristic (1 or 2 digits)

Second Source

M5 K 4164 P

Series Designation
Original Function of Original Source Type Name
Package

MOSAIC SEMICONDUTOR

Package

S	32 pin 0.6" DIP
K	32 pin 0.4" DIP
V	32 pin 0.1" VIL
G	32 lead Flatpack
W	32 pad LCC
J	32 pad JLCC

Power

Blank	Standard Power
L	Low Power

Temperature Range/Screening

—	Commercial
I	Industrial
M	Military
MB	Processed to Mil-Std-883
MC	Compliant to Mil-Std-883

Speed

025	25 ns
35	35 ns

Prefix **Device** **Suffix**

MSM 8129 VLMB-025

Package
Power
Temp. Range/Screening
Speed

MOSEL-VITELIC

V Vitelic

Family

6X	SRAM
5X	DRAM
63	Cache Related SRAM

VITELIC

Package

F	SOIC (mini-Flat Pack)
G	Ceramic LCC
J	Plastic LCC
K	SOJ
P	Plastic DIP
S	Skinny DIP
Z	Zip

Temperature Range

—	0°C to 70°C
I	-40°C to 85°C

Prefix **Device** **Suffix**

V 61C16 P 70 L I

Family
Package
Speed
Low Power
Temperature Range

Manufacturer Device Identification — **Part Number: Prefix** — **Suffix**

MOTOROLA

Description

Prefix	Description
MC	Packaged Integrated Circuits
MCC	Unencapsulated Integrated Circuit Chips
MCCF	Flip-Chip Linear Integrated Circuits
MCM	Integrated Circuit Memories
LM	Pin-for-Pin Equivalent to Linear Integrated Circuits Made by National Semiconductor
MMS	Memory Systems

Package

Suffix	Package
F	Flat Ceramic Package
G	Metal Can Package (TO-5 Types)
K	Metal Power Package (TO-3 Types)
L	Ceramic Dual-In-Line Case
P	Plastic Package
PQ	ICs Packaged In Staggered-Lead Plastic DIP Packages
R	Metal Power Packages (TO-66 Types)
T	Plastic Package (TO-220 Type)
U	Ceramic Package

SOIC package (small outline IC package)

Package

Dual-In-Line plastic in 8, 14 and 16 leads

SOT package (small outline, transistor package), such as SOT 23, etc.

Leadless Ceramic Chip Carriers

Leaded Plastic Chip Carriers

Now: A ceramic package with a lead count, up to 68 leads or more for direct socketing with boards

Prefix	Device	Suffix
MC	14510	L

Description (MC)

Package (L)

MSI/SCORPION

AM

Speed

Suffix	Speed
-35	35 ns
45	45 ns
55	55 ns

Package

Suffix	Package
R	Plastic DIP, 300 mil, 24 pins

Temperature Range

Suffix	Temperature Range
C	Commercial (0°C to 70°C)

Optical Processing

Suffix	Processing
–	Standard
B	Burn-In

Prefix	Device	Suffix
AM	99C2561	–35 R C B

Speed (–35)

Package (R)

Temperature Range (C)

Optional Processing (B)

MX-COM

Prefix	Description
MX	MX-COM Integrated Circuit

Package

Suffix	Package
P	Plastic DIP
J	Cerdip
LH	PLCC
M	CLCC
DW	SOIC

Prefix	Device	Suffix
MX	375	LH

Product Family (375)

Package (LH)

NATIONAL SEMICONDUCTOR

National Semiconductor

Family

ADC	Analog-Digital Converter
AF	Active Filter
BLC	Board Level Computer
BLMX	Board Level Multi-Tasking Executive
BLX	Board Level Expansion
CD	CMOS (4000-Series Only)
CIM	CMOS Microcomputer Board
COP	Family of Microcontrollers
DAC	Digital to Analog Converter
DB	Development Board
DH	Digital (Hybrid)
DM	Digital (Monolithic)
DP	Interface (Microprocessor)
DS	Interface
HPC	High Performance Microcontrollers
HS	Hybrid
ICM	Integrated Computer Module
IDM	Microprocessor (2901)
INS	Microprocessor (4004/8080A)
ISE	In-System Emulator
J	FET
JM	MIL-M38510
LF	Linear (BI-FET)
LH	Linear (Hybrid)
LM	Linear (Monolithic)
LMC	Linear CMOS
LP	Linear Low Power
MA	Module Macrocomponents
MCA	Gate Array
MF	Linear (Monolithic Filter)
MH	MOS (Hybrid)
MM	CMOS
NMC	MOS Memory
NS	Microprocessor Component (Memory Systems)
NS32	Microprocessor Component (Microprocessors, 32000)
NSC	Microprocessor (800)
NSW	Series 32000 Software
PAL	Programmable Array Logic
PL	Programmable Logic
SCX	Gate Array
SD	Special Digital
SL	Special Linear
SM	Special MOS
SN	Digital (2nd Source)
TP	Telecom Products
TMP	Terminal Management Processor

Temperature Ranges
Linear Devices
With proprietary linear circuits, a 1-2-3 numbering system is employed.
The 1 denotes a Military temperature range device (–55°C to 125°C), the 2 denotes an Industrial device (–25°C to 85°C), and the 3 denotes a Commercial device (0°C to 70°C). i.e. LM101/LM201/LM301. Exception to this are the LM1800 Series; some hybrid circuits which employ a "C" Suffix; and second source products which follow the original manufacturer's numbering system.

Package

D	Glass/Metal DIP
E	Ceramic Leadless Chip Carrier (LCC)
F	Glass/Metal Flat Pack (1/4" x 1/4")
G	12 Lead TO-8 M/C
H	Multi-Lead M/C
H-05	4 Lead M/C (TO-5) } Shipped with Thermal Shield
H-46	4 Lead M/C (TO-46) } Shipped with Thermal Shield
J	Lo-Temp Ceramic DIP (Sometimes referred to as the "Fit-Seal" Package).
J-8	8 Lead Ceramic DIP ("MiniDIP")
J-14	14 Lead Ceramic DIP (-14 used only when product is also available in -8 pkg.).
K	TO-3 M/C in Steel, except LM309K which is shipped in Aluminum
KC	TO-3 M/C (Aluminum)
K-Steel	TO-3 M/C (Steel)
M	Small Outline Package
N	Molded DIP (Epoxy B)
N-01	Molded DIP (Epoxy B) with Staggered Leads
N-8	8 Molded DIP (Epoxy B) ("Mini-DIP")
N-14	14 Lead Molded DIP (Epoxy B) (-14 used only when product is also available in -8 pkg).
P	3 Lead TO-202 PWR Pkg
Q	Cerdip with UV Window
T	3, 5, 11, 15 & 23 Lead TO-220 PWR Pkg (Epoxy B)
V	Multi-Lead Plastic Chip Carrier (PCC)
W	Lo-Temp Ceramic Flat Pak
WM	Wide Body Small Outline Package

Prefix **Device** **Suffix**
LF 356 N /A+
Device Family
Device Number (Generic Type) and Suffix Letter (Optional)
A: Improved Electrical Specification
C: Commercial Temperature Range (2nd Source Products)
Package Type
Reliability Program (Optional)

FAIRCHILD

Prefix **Device** **Suffix**
μA 741 A H M
Electrical Class (if used)
Package
Temperature

Package

D	Ceramic DIP
E	Plastic Can
F	Flat Pack
H	Metal Can
J	Metal Power Package (TO-66)
K	Metal Power Package (TO-3)
P	Plastic DIP
R	Ceramic Mini DIP
S	Ceramic DIP (F6800 Family)
T	Mini DIP
U	Power Package (Molded, TO-220)
W	Plastic TO-92

Temperature—
Check Device Data for Specific Values

C	0°C to 70°C/75°C (CMOS –40°C to 85°C)
L	MOS –55°C to 85°C Hybrid –20°C to 85°C
M	–55°C to 125°C

NCM CORPORATION

ncm corporation

Temperature

C	Commercial
M	Military

Package

D	Ceramic DIP
F	Ceramic Flatpack
L	Leadless Carrier
N	Plastic DIP

Digits 1, 2

20	Metal Gate, Full Custom
30	Metal Gate, Semi Custom
40	Si-gate, Full Custom
50	Bipolar Array
60	Analog, Custom
70	Si-gate, Semi Custom

Digits 3, 4
Device No.
Device No.
Device No.
Device No.
Device No.

Prefix **Device** **Suffix**
NCM 40 02 Z N
Technology
Device Number
Revision
Package

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

NCR MICROELECTRONIC PRODUCTS DIVISION

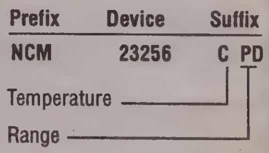
NCR

Temperature

C	0° to 70°C
I	–40°C to 125°C
HR	Automotive temperature

Package

PD	Plastic DIP
CD	Ceramic DIP
PL	Plastic LCC
SO	Small Outline
QFP	
TQFP	
TAB	


Prefix
Device
Suffix
NCM
23256
C PD
Temperature
Range

NEC ELECTRONICS, INC.

NEC
NEC Electronics Inc.

Device Type

B	Digital bipolar
D	Digital MOS

Family

10	10K ECL RAM
100	100K ECL RAM
23(H)C	CMOS ROM
27(H)C	CMOS EPROM
28C	CMOS EEPROM
28F	CMOS flash memory
41	NMOS dynamic RAM
42	CMOS dynamic RAM
43	CMOS static RAM
44	CMOS static RAM (6-T cell)
46	BiCMOS static RAM
48	CMOS application specific device

DRAM Option

S	Self-refresh and low power devices

Package

B or BH	Ceramic Flatpack Plastic DIP (dual inline package)
C, CR or CZ	Cerdip or Ceramic DIP
D, DH, DX or DZ	Cerdip or ceramic DIP
G (≤ 40 pins), GU or GW	Plastic SOP (small outline package)
G (>40 pins) or GF	Plastic SOP
G5, GX or GZ	Plastic TSOP (thin small-outline package)
K	Ceramic LCC (leadless chip carrier)
L	PLCC (plastic leaded chip carrier)
LA, LB or LE	Plastic SOJ (small-outline J-lead package)
R	Ceramic PGA (pin grid array)
V	Plastic ZIP (zigzag inline package)

Low-Power Indicator (Optional)

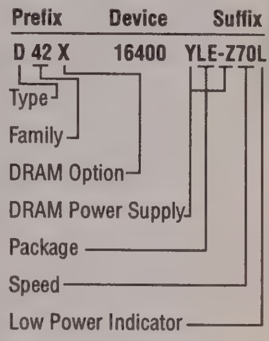
L	Low power
LL	Very low power

Speed

–10	100 ns or 10 ns
–12	120 ns or 12 ns
–15	150 ns or 15 ns
–50	50 ns
–60	60 ns
–70	70 ns
–80	80 ns
–85	85 ns
–XX	Etc.

DRAM Power Supply

y	z	
–	–	5V ±10%
A	–	5V ±10% (with internal voltage regulator)
–	A	3.0 – 5.5V
–	B	2.7 – 5.5V
L	A	3.3V ±10%
L	B	3.0V ±10%

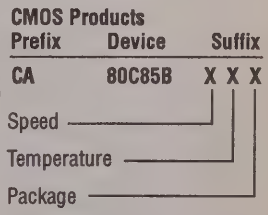

Prefix
Device
Suffix
D 42 X
16400
YLE-Z70L
Type
Family
DRAM Option
DRAM Power Supply
Package
Speed
Low Power Indicator

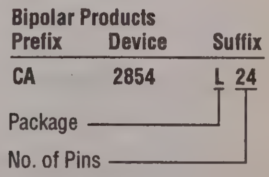
NEWBRIDGE MICROSYSTEMS

NEWBRIDGE

Temperature

C	Commercial (0°C to 70°C)
I	Industrial (–40°C to 85°C)
E	Extended Temp (–55°C to 125°C)
M	Military (–55°C to 125°C) (Screened to MIL STD 883 Equivelant)


CMOS Products
Prefix
Device
Suffix
CA
80C85B
X X X
Speed
Temperature
Package


Bipolar Products
Prefix
Device
Suffix
CA
2854
L 24
Package
No. of Pins

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

NMB TECHNOLOGIES

Series

AAA1M30X	High Speed 1Mb DRAM

Mode

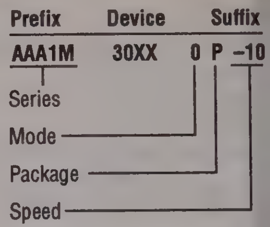
0	Fast Page (1Mx1)
1	Nibble
2	Static Column (1Mx1)
4	Fast Page (256Kx4)
5	Static Column (256Kx4)

Package

P	Plastic DIP
Z	Plastic ZIP
J	Plastic SOJ

Speed (ns)

–08	80
–07	70
–06	60
–05	53


Prefix
Device
Suffix
AAA1M
30XX
0
P
-10
Series
Mode
Package
Speed

AAA4M200	**4MB** DRAM

Battery Backup

(Blank)	No Battery Backup
L	Low Power Version (BBU)

Speed

04	40ns tRAC
45	45ns tRAC
05	50ns tRAC
06	60ns tRAC
08	80ns tRAC

Package

J	SOJ
P	PDIP
Z	ZIP
S	TSOP (I) Normal Bend
Q	TSOP (I) Reverse Bend
T	TSOP (II) Normal Bend
R	TSOP (II) Reverse Bend

Mode

0	4M x 1 Enhanced Page Mode
1	4M x 1 Static Column Mode (To Be Announced)
4	1M x 4 Enhanced Page Mode
5	1M x 4 Static Column Mode (To Be Announced)

Write Per Bit

0	No Write Bit
1	Write Per Bit (To Be Announced)

OKI

Family

MSM	MOS IC
MSA	Linear IC
MSC	Multiple IC
MSL	Bipolar IC

Device Identifier

41464	64K x 4
41256	256K x 1
511000	1 Meg x 1 (Fast Page)
511001	1 Meg x 1 (Nibble)
511002	1 (Static Column)
514256	256 x 4 (Fast Page)
514258	256 x 4 (Static Column)

Mask Revision

A	1.0 µm
B	0.8 µm

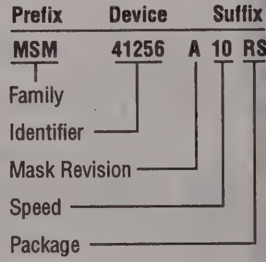
Speed

80	80 ns
10	100 ns
12	120 ns

Package

RS	Plastic DIP
JS	Plastic LCC/SOJ
ZS	Plastic DIP

DRAM Module


Prefix
Device
Suffix
MSM
41256
A
10
RS
Family
Identifier
Mask Revision
Speed
Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

OPTICAL ELECTRONICS

Description

2000	Log/Anti–Log
3000	V/F–F/V Phase Detector
5000	Non–Linear Functions
6000	3–D System Card
9000	Op Amps, Comparators Current Booster, etc.

OPTIMUM

OPT Optimum

Grade

A	(best)
B	
C	

Package

P	Plastic Dip
D	CerDIP
C	Side Brazed DIP (Ceramic)
J	SOIC
N	PLCC
Q	Quad Flat Package (Plastic)
L	LCC

Temperature

–	0 to 70°C
I	-40 to 85°C
M	-55 to 125°C

Prefix Device Suffix
OPT 506 A I C –
Grade (optional)
Temperature
Package
Pins (optional)

PANASONIC (MATSUSHITA)

MATSUSHITA

Description

AN	Analog
DN	Digital Bipolar
MJ	Development Type
MN	MOS

Prefix	Device
DN	74LS00

PARADIGM TECHNOLOGY

PDM Paradigm

Power

S	Standard
L	Low Power

Speed

10	10 ns
12	12 ns
15	15 ns
20	20 ns
25	25 ns
35	35 ns
45	45 ns
55	55 ns

Package

P	300 mil Plastic DIP
D	300 mil Cerdip
L28	350 x 550 LCC
SO	300 mil Plastic SOJ
TC	400 mil Sidebraze DIP
TSO	300 mil Plastic SOJ
C	600 mil Sidebraze DIP
L32	450 x 550 LCC

Prefix Device Suffix
PDM XXXX A XX A A
Power
Speed
Package
Process

PERFORMANCE SEMICONDUCTOR

P	Performance
P4C	Static RAMs

Package

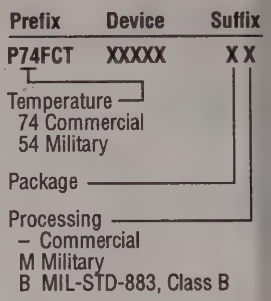
P	Plastic DIP
J	Plastic SOJ
D	Cerdip
C	DIP, Sidebrazed
L	Leadless Chip Carrier
SO	Plastic SOIC
QW	PLCC
Q	SSOP-150 (QSOP)
SG	PGA
SP	Ceramic Quad Flatpack
MQ	Metal Quad Flatpack
PP	PLCC (microprocessor)
PQ	Plastic Quad Flatpack

Prefix Device Suffix
P4C XXXXX X-SSPPT
Static RAM
Low Power Designator
Speed (ns)
Package
Temperature Range

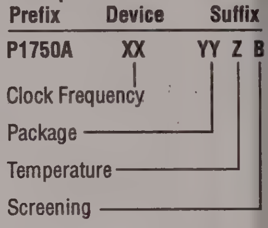
PERFORMANCE SEMICONDUCTOR (continued)

Temperature

C	Commercial (0° to 70°C)
M	Military (–55 to 125°C)
MB	Mil-STD-883, Class D


Prefix
Device
Suffix
P74FCT
XXXXX
X X
Temperature
74 Commercial
54 Military
Package
Processing
– Commercial
M Military
B MIL-STD-883, Class B

Microprocessor


Prefix
Device
Suffix
P1750A
XX
YY Z B
Clock Frequency
Package
Temperature
Screening

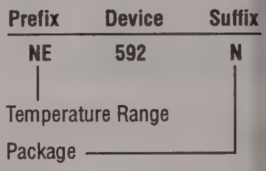
PHILIPS

Temperature

N	0°C to 70°C
S	–55°C to +125°C
NE	0°C to +70°C
SA	–40°C to +85°C
SE	–55°C to +125°C
54	–55°C to +125°C
74	0°C to +70°C

Package

A	Plastic Leaded Chip Carrier
B	Square/Rectangular Plastic Quad Flat Pack Package
D	Plastic SO (Small Outline) Dual In-Line Plastic SOL (Small Outline Large) Dual In-Line
DK	Plastic SSOP
DL	Plastic SSOP
F	Ceramic Dual In-Line Package
G	Square/Rectangular Ceramic Leadless Chip Carrier Package
H	Header
I	Hermetic Sidebraze Dual In-Line Package
K	Cerquad J-Bend
L	Square Ceramic Leaded Chip Carrier Package
N	Plastic Dual In-Line Package
P	Ceramic Pin Grid Array
W	Ceramic Flat Pack Package
Y	Ceramic Quad Flat Pack Package


Prefix
Device
Suffix
NE
592
N
Temperature Range
Package

POWER INTEGRATIONS

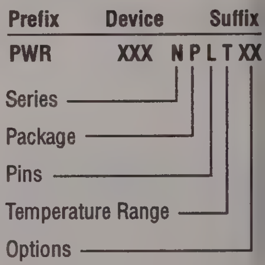
PWR Power Integrations

Package

P	Plastic DIP
D	Sidebraze
U	Sidebraze Hermetic
X	Dice
S	Small Outline (SOIC)
H	Metal Can
T	TO-220
L	Plastic LCC
R	LCC
C	Ceramic Leaded CC
E	Plastic Leaded CC
W	Plastic SIP
G	Pin Grid Array
B	Batwing
Q	DIP with Slug

Pins

A	3
B	4
C	5
D	6
E	7
F	8
H	9
J	10
K	11
L	14


Prefix
Device
Suffix
PWR
XXX
N P L T XX
Series
Package
Pins
Temperature Range
Options

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

POWER INTEGRATIONS (continued)

M	15
N	16
P	18
R	20
S	21
T	22
U	24
V	28

Temperature Range

C	0°C to 70°C
I	–40°C to 85°C
M	–55°C to 125°C

PRO ELECTRON

Solitary Circuits

First Letter

S	Solitary
T	Analog Circuit
U	Mixed Analog/Digital

Second Letter

No special significance.

Family Circuits

First Two Letters

Family

Third Letter

Temperature Range

A	Temp. Range not specified below
B	0°C to +70°C
C	–55°C to +125°C
D	–25°C to +70°C
E	–25°C to +85°C
F	–40°C to +85°C

Device or Serial Number

The Serial Number may be either a 4-figure number (assigned by PRO ELECTRON) or the serial number of minimum 4 digits (combining figures and numbers) of an existing house number. House numbers consisting of less than 4 digits are extended to a 4-digit number by adding zeros (0) before them.

First Version Letter

C	Cylandrical
D	Dual-In-Line (DIL)
F	Flat Pack (incl. SO)
Q	Quadruple-In-Line

For other variantes the version letter has no fixed meaning, except the letter Z which stands for types with customized wiring.

Second Version Letter

C	Metal-Ceramic
G	Glass-Ceramic
M	Metal
P	Plastic

Prefix **Device** **Suffix**

TEC **1033** **GC B/B**

T — Temperature

Package — GC

Quality Level — B/B

QUALCOMM

Q Qualcomm

QUALCOMM INCORPORATED

Temperature Range

C	Commercial (0°C to 70°C)
I	Industrial (–40°C to 85°C)
M	Military (–55°C to 125°C)

Package

C	Ceramic Leadless Chip Carrier
G	Pin Grid Array
L	Ceramic Leaded Chip Carrier
M	Small Outline IC
N	Plastic Leaded Chip Carrier
P	Plastic DIP
S1	Plastic Quad Flat Pack
T	Pin Style Package

Prefix **Device** **Suffix**

Q **XXXX T -SS P**

Temperature Range — T

Speed — SS

Package — P

QUALITY SEMICONDUCTOR INC.

QS Quality

Temperature Range

–	Commercial, 0°C to 70°C
B	MIL STD 883, Class B
M	Military –55°C to 125°C

Package

P	Plastic DIP, 300 mil
Q	QSOP, Quarter Size Outline Package, 150 mil, plastic
V	SOJ, 300 mil

SRAM

Prefix **Device** **Suffix**

QS **8XXX- XXX XX X**

Speed — XXX

Package — XX

Temperature — X

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

QUALITY SEMICONDUCTOR INC. (continued)

Temperature Range

–	Standard Commercial, 0°C to 70°C
B	MIL STD 883, –55°C to 125°C
M	Military, –55°C to 125°C

Package

P6	Plastic DIP, 600 mil
D6	Ceramic DIP. 600 mil
LR	Leadless Ceramic Chip Carrier
P	Plastic DIP, 300 mil
JR	PLCC
V	SOJ
D	Ceramic DIP, 300 mil

FIFO

Prefix	Device	Suffix
QS	7XXX-	XXX XX X

Speed — XXX
Package — XX
Temperature — X

Package

P	Plastic DIP, 300 mil
D	Ceramic DIP. 300 mil
L	Leadless Ceramic Chip Carrier
SO	Small Outline IC, 300 mil
Z	Plastic ZIP
Q	QSOP, Quarter Size Outline Package, 150 mi, plastic
H	Ceramic QSOP

Temperature Range

–	Standard Commercial, 0°C to 70°C
B	MIL STD 883, –55°C to 125°C
M	Military, –55°C to 125°C

Quickswitch

Prefix	Device	Suffix
QS	XXXX-	X X

Package — X
Temperature Range — X

R & E INTERNATIONAL

SCL	Standard CMOS Logic
BCL	High Rel CMOS Logic

Program

+	Enhanced Screen
Blank	Standard

Package

C	Ceramic Frit Seal Dual-in-Line (–55°C to 125°C)
E	Plastic (epoxy) Dual-in-Line (–40 to 85°C)
S	Surface mount Dual-in-Line (–40 to 85°C)

Prefix	Device	Suffix
SCL	4XXXB	C X

Package — C
Plus Program — X

RAMTRON CORPORATION

FM	Ferroelectronic Memory
Device Size	Memory Size (Power of 2)
Organization	Bit Organization
Performance	Access or Cycle Time

RAMTRON CORPORATION

Package

D	Ceramic DIP
DS	Skinny Ceramic DIP
P	Plastic DIP
PS	Skinny Plastic DIP
S	Small Outline Package
X	Die Form

Temperature Range

C	0°C to 70°C
I	–40°C to 85°C
M	–55°C to 125°C

Prefix	Device	Suffix
FM	120 8 -100	D C

Device
Size — 120
Organization — 8
Performance — -100
Package — D
Temperature Range — C

RAYTHEON SEMICONDUCTOR

Raytheon

Mountain View Series

Temperature Range

RM	Military –55°C to +125°C
RV	Industrial –25°C to +85°C
RC	Commercial 0°C to +70°C

Package

A	Ceramic Leadless Chip Carrier (LCC)
B	CERDIP
Cn	Ceramic Leadless Chip (LCC)
CH	Waffle-Packed Dice
CW	Chip in Wafer Form
D	Ceramic Dual In-Line Package
E	Eurocard Format Circuit Board
G	Hermetic Ceramic Pin Grid Array (PGA)
H	Metal Can (Epoxy Die Attach)
Hn	Plastic Pin Grid Array (PGA)
J	Hermetic Ceramic Duali In-Line Package (DIP)
K	9-Lead Metal Can Power
L	Hermetic Ceramic Leadless Chip Carrier (LCC)
M	Plastic Small Outline IC (SOIC)
N	Plastic Dual In-Line Package (DIP)
P	Printed Circuit Board
R	Plastic J-Leaded Chip Carrer (PLCC)
S	Sidebraze Ceramic Dual In-Line Package
T	Metal Can (Eutectic Die Attach)

Prefix	Device	Suffix
RM	5532	A D /883B

Temperature Range — RM
Electrical Grade — A
Package — D
High Reliability Processing — /883B

Manufacturer Device Identification | **Part Number: Prefix** | **Suffix**

RAYTHEON SEMICONDUCTOR (continued)

LT Series

Temperature Range
- **M** Military –55°C to +125°C
- **C** Commercial 0°C

Package
See above

Prefix	Device	Suffix
LT	1001	A M D /883B

Electrical Grade — A
Temperature Range — M
Package — D
High Reliability Processing — /883B

LM Series

Basic Part Type & Temperature Range
First digit denotes temperature range
- **1** Military –55°C to +125°C
- **3** Commercial 0°C to +70°C

Package
See above

Prefix	Device	Suffix
LM	101	A D /883B

Basic Part Type & Temperature Range — 101
Electrical Grade — A
Package — D
High Reliability Processing — /883B

DAC Series

Package
- **D** Ceramic Dual In Line
- **N** Plastic Dual In Line

Prefix	Device	Suffix
DAC	08	X D /883B

Electrical Grade — X
Package — D
High Reliability Processing — /883B

PROMs

Bipolar PROM Family
- **6** Bipolar PROMs
- **7** Enhanced Bipolar PROMs

Memory Size
- **2** 512 x 8 (4K)
- **3** 1024 x 8 (8K)
- **5** 2048 x 4 (8K)
- **7** 4096 x 8 (32K)
- **8** 2048 x 8 (16K)
- **9** 8192 x 8 (64K)

Product Type
- **1** Standard Performance PROM
- **3** Power Switched PROM

Performance (296XX Family)
- **A** Speed Option
- **Blank** Standard Speed

Package
- **S** Ceramic Slim DIP, 0.3" wide
- **D** Ceramic DIP, 0.6" wide
- **L** Leadless Chip Carrier
- **F** Flat Pack

Temperature
- **M** –55°C to +125°C

Screening
- **S** MIL-STD-883, Level S

Prefix	Device	Suffix
R296	81	A D M S

Prefix — R296
Memory Size — 8
Product Type — 1
Performance — A
Package — D
Temperature — M
Screening — S

La Jolla Series

Family
- TAC
- TDC
- TMC
- MPY

Package
See Mountain View Series

Temperature Range & Screening
- **A** High Reliability –55°C to 125°C
- **B** Industrial –25°C to 85°C
- **C** Commercial 0°C to 70°C
- **F** Extended Temperature Range –55°C to 125°C
- **V** MIL-STD-883 Compliant –55°C to 125°C

Prefix	Device	Suffix
TMC	2210	N0 C 1

Family — TMC
Package — N0
Temperature Range & Screening — C
Electrical Variation (optional) — 1

RCA

(See Harris Semiconductor)

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

ROCHESTER ELECTRONICS

Rochester Electronics INCORPORATED

XXXX **XX/X**

Package

D	Cerdip
F	Cerpak
FK	LCC
FN	PLCC
G	Metal Can
H	Metal Can
J	Cerdip
JG	8 Pin Cerdip
L	Cerdip
LM	LCC
M	SOIC
N	P-Dip
P	P-Dip
T	Cerpak (¼ x .160)
W	Cerpak
WA	Cerpak (¼ x .200)

Temperature

C	0°C to 70°C
I	–40°C to 85°C
M	–55°C to 125°C

Process

R	HiRel
B	Non-Compliant 883
883C	Compliant 883

Electricals and burn-in circuits in accordance with applicable slash sheet.

See JAN Nomenclature.

ROCKWELL

Rockwell International

R Rockwell

Prefix	Device	Suffix
R	6502	A C E

Frequency Range — A
Package — C
Temperature — E

Prefix	Device	Suffix
R	65C02	C 4 E

Package — C
Frequency Range — 4
Temperature — E

SAMSUNG

SAMSUNG Electron Devices

K	Samsung
KM	Samsung Memory

Speed

4	4 MHz
6	6 MHz
8	8 MHz
10	10 MHz
12	12 MHz
16	16 MHz

Temperature

C	Temperature
I	Industrial

Package

P	Plastic DIP
L	Plastic Leaded Chip Carrier

Microprocessor Peripherals

Prefix	Device	Suffix
KS	82CXXX	X X X

Speed — X
Package — X
Temperature — X

Manufacturer Device Identification | **Part Number** — **Prefix** | **Suffix**

SAMSUNG (continued)

Prefix

Organization

1	x1
4	x4
8	x8

Process Technology

B	BiCMOS

Density (Device)

65	64K fast SRAM
67	64K fast SRAM
257	Standard SRAM
1001	1M fast SRAM
1002	1M fast SRAM with center power supplies
1005	1M fast SRAM with separate data i/Os

Suffix

Revision

—	First Generation
A	Second Generation

Standby Power

—	Normal
L	Low Power

Package

P	Plastic DIP
J	Plastic SOJ

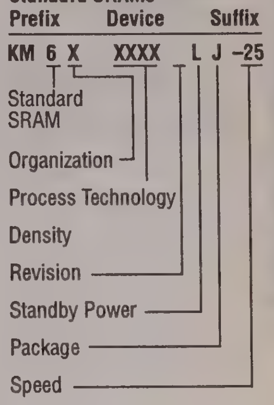
Speed

10	10 ns
12	12 ns
15	15 ns
20	20 ns
25	25 ns
35	35 ns
45	45 ns
55	55 ns

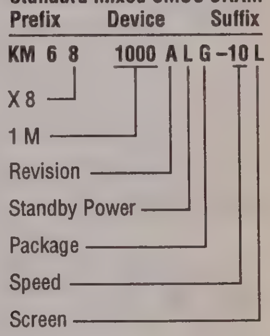
Package

P	Plastic DIP, 32 pin
G	Gull Wing Plastic Small Outline, 32 pin
T	Type 1 Thin Small Outline, 32 pin
TM	Type 1 Thin Small Outline with Mirrored Pinout

Standard SRAMs


Prefix
Device
Suffix
KM 6 X XXXX L J -25
Standard SRAM
Organization
Process Technology
Density
Revision
Standby Power
Package
Speed

Standard Mixed CMOS SRAM


Prefix
Device
Suffix
KM 6 8 1000 A L G -10 L
X 8
1 M
Revision
Standby Power
Package
Speed
Screen

Speed

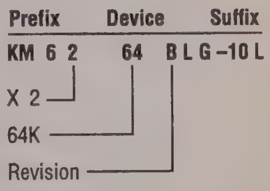
7	70 ns
8	85 ns
10	100 ns
12	120 ns
15	150 ns
20	200 ns
25	250 ns

Screen

L	Low-Low Power Standby
V	3.0V Operating Voltage
I	Industrial Voltage
—	Commercial Temperature

Standby Power

—	1 mA
L	100 mA


Prefix
Device
Suffix
KM 6 2 64 B L G -10 L
X 2
64K
Revision

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SAMSUNG (continued)

Organization

1	x1
4	x4
8	x8
16	x16
18	x18

Process Technology

—	NMOS
C	CMOS

Density

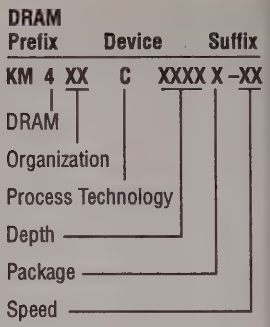
64	64K
256	256K
1000	1M
4000	4M
16000	16M
64000	64M

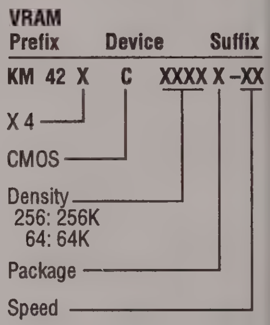
Package

P	DIP
J	SOJ
Z	ZIP

Speed

05	50 ns
06	60 ns
07	70 ns
08	80 ns
10	100 ns
12	120 ns
15	150 ns
20	200 ns


DRAM
Prefix
Device
Suffix
KM 4 XX C XXXX X -XX
DRAM
Organization
Process Technology
Depth
Package
Speed


VRAM
Prefix
Device
Suffix
KM 42 X C XXXX X -XX
X 4
CMOS
Density
256: 256K
64: 64K
Package
Speed

Density

256	32Kx8
512	64Kx8
1010	128Kx8
2000	256Kx8
2100	128Kx16
4000	512Kx8
4100	256Kx16
8000	1Mx8
8100	512Kx16

Speed

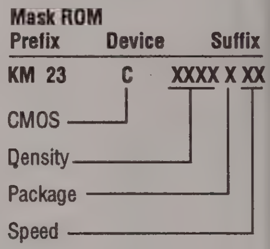
20	200 ns
15	150 ns
10	100 ns

Package

—	DIP
G	SOP
FP	QFP

Device Type

93	Serial
28	Standard

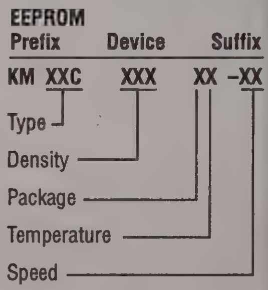

Mask ROM
Prefix
Device
Suffix
KM 23 C XXXX X XX
CMOS
Density
Package
Speed

Density

Serial	
06	256 bits
07	256 bits
46	1K bits
Standard	
16	16K bits
64	64K bits
256	256K bits

Speed (Standard)

15	150 ns
20	200 ns
25	250 ns


EEPROM
Prefix
Device
Suffix
KM XXC XXX XX -XX
Type
Density
Package
Temperature
Speed

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SAMSUNG (continued)

Package

Serial

—	DIP
G	SOIC
GD	SOIC with DIP printout

Parallel

P	DIP
J	PLCC

Type

0471	Triple 6-bit DAC
0476	Triple 6-bit DAC
0478	Triple 8-bit DAC

Package

PL	44-pin PLCC
PJ	32-pin PLCC
CN	Plastic DIP, 600 mil
CP	Skinny DIP, 300 mil

RAM DAC

Prefix	Device	Suffix	
KDA	XXXX	XX	-XX

Type — XXXX

Package — XX

Speed — -XX

FIFO

Prefix	Device		Suffix
KM 75C	XX	X X X	-XX

CMOS — 75C

Organization — XX

Revision — -XX

SANYO

Designation

LA	Bipolar Linear	**LM**	PNOS, NMOS
LB	Bipolar - Digital	**STK**	Thick Film
LC	CMOS		

Prefix	Device
LA	1230

SCORPION

AM

Speed

-35	35 ns
45	45 ns
55	55 ns

Package

R	Plastic DIP, 300 mil, 24 pins

Temperature Range

C	Commercial (0°C to 70°C)

Optical Processing

–	Standard
B	Burn-In

Prefix	Device	Suffix			
AM	99C2561	–35	R	C	B

Speed — –35

Package — R

Temperature Range — C

Optional Processing — B

SEEQ

Temperature Range

Q	For Commercial Temperature 0°C to +70°C
E	For Extended Temperature –40°C to +85°C
M	For Military Temperature –55°C to +125°C

MIL-STD-883
Level B Processing
Read access time of memory devices (ns)

Package

D	Ceramic
L	Leadless Chip Carrier
P	Plastic DIP
N	Plastic Leaded Chip Carrier
F	Hermetic Flatpack

Prefix		Device	Suffix	
D	Q	2816	350	B

Package Type — D

Temperature Range — Q

Read Access Time of Memory Devices (ns) — 350

MIL-STD-833 Level B Processing — B

SEMTECH CORPUS CHRISTI SCC

(Formerly LAMBDA)

L	Overvoltage regulator
LAS	IC

Package

P	Plastic
S	Surface Mount
L	Ceramic DIP

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SGS–THOMSON MICROELECTRONICS

SGS-THOMSON MICROELECTRONICS

Family

M27	EPROM
M93	EEPROM

Package

B	Plastic
D	Ceramic Multilayer
F	Ceramic Frit Seal
M	SO-8 Plastic

Memory Devices

Prefix **Device** **Suffix**

MXXX XXXXX XX X X

Family

Speed

Package

Temperature

Family

ET21	Static RAM
ETL21	Static RAM
ETC27	EPROM
MK41	Fast Static RAM
MK45	Biport FIFO
MK48	Static RAM
TS27	EPROM
TS28	EEPROM
TS59	EEPROM

Temperature

—	NMOS
C	CMOS
L	Low Power

Package

C	Ceramic DIL
J	Ceramic DIL
N	Plastic DIL
Q	UV Window Cerdip

Temperature

—	0°C to 70°C
E	–25°C to 70°C
V	–40°C to 85°C
M	–55°C to 125°C

Quality Level

—	Standard
B/B	MIL-STD-883B Class B

Prefix **Device** **Suffix**

XX X XXXX X XX X XX

Family

Technology

Package

Speed

Temperature

Quality Level

Family

Z8000	CPU
Z8500	Peripherals

Speed

—	4 MHz
A	6 MHz

Package

B	Plastic
D	Ceramic
F	Frit Seal
C	Leaded Plastic Chip Carrier
K	Leadless Ceramic Chip Carrier

Temperature

1	0 to 70°C
6	–40°C to 85°C
2	–55°C to 125°C

Prefix **Device** **Suffix**

Z 80XX X X X

Speed

Package

Temperature

Family

Z86XXX	Microcomputer
Z84XXX	Microcoprocessor

Speed (Z86XXX)

—	8 MHz
A	12 MHz

Speed (Z84XXX)

—	2.5 MHz
A	4 MHz
B	6 MHz
H	8 MHz

Package

B	Plastic
D	Ceramic
F	Frit Seal
C	Leaded Plastic Chip Carrier
K	Leadless Ceramic Chip Carrier

Temperature

1	0 to 70°C
6	–40°C to 85°C
2	–55°C to 125°C

Prefix **Device** **Suffix**

Z 86XXX X X X

Speed

Package

Temperature

Prefix **Device** **Suffix**

Z 84XXX X X X

Speed

Package

Temperature

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SGS–THOMSON MICROELECTRONICS (continued)

Family

EF68XX	Microprocessor
TS68XXX	Microprocessor & CRT Controllers
EF68XX	Peripherals
MK68XXX	Peripherals & Data Comm
MK38XX	MCU Peripherals
EF93XX	CRT Controller
TS689XX	DSP

Package

C	Ceramic DIL
E	CLCC
J	Cerdip
FN	PLCC
P	Plastic DIL
R	Pin Grid Array

Temperature

L*	0°C to 70°C
V	–40°C to 85°C
M	–55°C to 125°C

*May be omitted

Quality Level

—	Standard
B/B	MIL-STD-883B Class C
B/C	MIL-STD-883C Class B

Prefix **Device** **Suffix**
XX X XXXXX X X XX
Technology
Package
Temperature
Quality Level

Family

MK	Standard Product
MKJ	MIL-M-38510
MKB	MIL-STD-883B
MKX	MIL-Hi-Rel Screening to Customers SCD
MKI	Ind. Hi-Rel Screening for –40°C to 85°C

Package

P	Gold Side-Brazed Ceramic DIP
J	Cerdip
N	Epoxy DIP
K	Tin-Side-Brazed Ceramic DIP
T	Ceramic DIP/Transparent Lid
E	Ceramic Leadless Chip Carrier
D	Dual Density RAM-PAC
F	Flat Pack

Prefix **Device** **Suffix**
MKX XXXXX X XX
Package
Dash No.

INMOS

Type

1	Static RAM
2	Dynamic RAM

Size (2^n) K

4 = 16K
5 = 32K
6 = 64K
etc...

Organization (2^n) Bits

0 = x 1
1 = x 2
2 = x 4
etc...

Option

0	Standard
I	Optional Function

Package

S	Ceramic DIP
K	Ceramic DIP, Solder Dipped
W	Ceramic LCC
N	Ceramic LCC, Solder Dipped
P	Plastic DIP

Speed

45	—45ns Access Time
55	—55ns Access Time
12	—120ns Access Time
etc...	

Screening

(Blank)	Commercial
M	MIL-883C
E	Extended Temperature
L	Low Power

Prefix **Device** **Suffix**
IMS 1420 S 45 M
Company
Type
Size
Organization
Option
Package
Speed
Screening

SHARP

lh5p	PSRAMs
lh51	Ultra Low-Power SRAMs (Full CMOS)
lh52	SRAMs (NCMOS)
lh53	MROMs
lh54	FIFOs
lh9	DSP
Ir	Bipolar
lr	MOS IC
lz	CCD

LH51	Ultra Low-Power SRAMs (Full CMOS)

Speed

80	80 ns
10	100 ns
12	120 ns
15	150 ns
30	300 ns

Option

–	Commercial Temp. Range
H	Industrial
S	3 V Operation

Packages

–	600-Mil DIP
D	300-Mil DIP
N	SOP
T	TSOP
TR	Reverse TSOP

Ultra Low–Power SRAMs
Prefix **Device** **Suffix**
LH51 68 H N -10 L
Ultra Low–Power SRAM
Option
Package
Speed
Standby Power

Manufacturer Device Identification	Part Number Prefix	Suffix

SHARP (continued)

Standby Power

L or –	≤10 µA

LH52 SRAMS (NCMOS)

Speed

20	20 ns
25	25 ns
35	35 ns
45	45 ns
70	70 ns
10	100 ns

Option

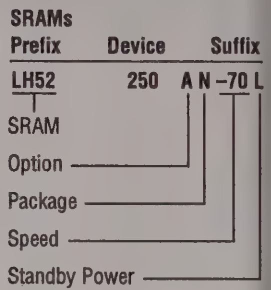
–	5 V Operation
S	3 V Operation

Packages

–	600-Mil DIP
D	300-Mil DIP
E	400-Mil DIP
K	SOJ
N	SOP
U	PLCC
T	TSOP
TR	Reverse TSOP

Standby Power

–	>100 µA
L	100 µA
LL	40 µA


SRAMs
Prefix
Device
Suffix
LH52
250
A N -70 L
SRAM
Option
Package
Speed
Standby Power

LH5P PSRAMs

Speed

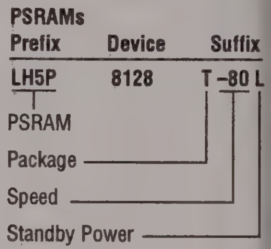
45	45 ns
60	60 ns
70	70 ns
80	80 ns
10	100 ns
12	120 ns

Packages

–	600-Mil DIP
D	300-Mil DIP
N	SOP
T	TSOP
TR	Reverse TSOP

Standby Power

–	>100 µA
L	100 µA


PSRAMs
Prefix
Device
Suffix
LH5P
8128
T -80 L
PSRAM
Package
Speed
Standby Power

LH54 FIFOs

Organization

1	64 x 9
6	512 x 9
7	1K x 9
8	2K x 9
9	4K x 9

Speed

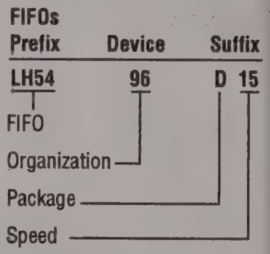
15	15 ns
20	20 ns
25	25 ns
35	35 ns
50	50 ns
65	65 ns

Frequency – LH5481/91 Only

15	15 MHz
25	25 MHz
35	35 MHz

Packages

D	300-Mil DIP
–	600-Mil DIP
P	PQFP
U	PLCC


FIFOs
Prefix
Device
Suffix
LH54
96
D 15
FIFO
Organization
Package
Speed

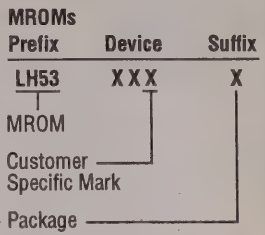
Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SHARP (continued)

LH53 MROMs

Density

59	32K x 8 — 256 Kb (150 ns)
15	64 x 8 — 512 Kb (150 ns)
08	128K x 8 — 1 Mb (150 ns)
1H	128K x 8 — 1 Mb (150 ns)
H10	128K x 8 — 1 Mb (45 ns)
2H	256K x 8 — 2 Mb (120-150 ns)
2g	256K x 8/128K x 16 — 2 Mb (120-150 ns)
4h	512K x 8 — 4 Mb (200 ns)
4k	512K x 8 — 4 Mb (150 ns)
4r	512K x 8 — 4 Mb (120 ns)
4g	512K x 8/256K x 16 — 4 Mb (200 ns)
4f	512K x 8/256K x 16 — 4 Mb (150 ns)
4p	512K x 8/256K x 16 — 4 Mb (120 ns)
4s	512K x 8/256K x 16 — 4 Mb (500 ns – 3V)
81	1M x 8 — 8 Mb (200 ns)
8k	1M x 8 — 8 Mb (150 ns)
8d	1M x 8 — 8 Mb (150 ns)
8r	1M x 8 — 8 Mb (120 ns)
80	1M x 8/512K x 16 — 8 Mb (200 ns)
8f	1M x 8/512K x 16 — 8 Mb (150 ns)
8p	1M x 8/512K x 16 — 8 Mb (120 ns)
86	1M s 8/512K x 16 — 8 Mb (100 ns)
8s	1M x 8/512K x 16 — 8 Mb (500 ns – 3 V)
16	2M x 8/1M x 16 — 16 Mb (200 ns)
75	2M x 8/1M x 16 — 16 Mb (150 ns)
71	2M x 8/1M x 16 — 16 Mb (150/70 ns page mode)
32	4M x 8/2M x 16 — 32 Mb (200 ns)


MROMs
Prefix
Device
Suffix
LH53
XXX
X
MROM
Customer Specific Mark
Package

Customer Specific Mark

Assigned after code is successfully transferred.

Packages

D	Plastic DIP
M	QFP (Quad Flat Package)
N	SOP (Small Outline Package)
T	TSOP (Thin Small Outline Package)

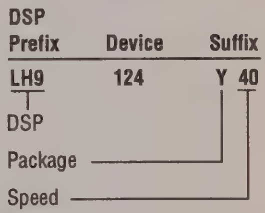
LH9 DSP

Speed

33	33 MHz
40	40 MHz

Packages

U	PLCC
Y	PGA


DSP
Prefix
Device
Suffix
LH9
124
Y 40
DSP
Package
Speed

SIEMENS

Prefixes

Memory Components
HYB

Organization

1000	1M x 1
4100	4M x 1
4256	25615 x 4
4400	4M x 4
4410	4M x 4, write per bit

Package

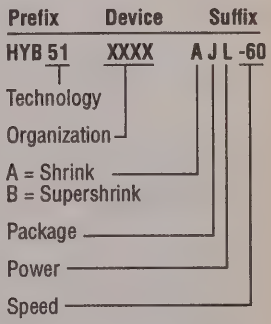
–	DIP
J	SOJ
Z	ZIP-Gehause

Power

L	Low power
Blank	Standard

Speed

60	60 ns
70	70 ns
80	80 ns


Prefix
Device
Suffix
HYB 51
XXXX
A J L -60
Technology
Organization
A = Shrink
B = Supershrink
Package
Power
Speed

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SIEMENS (continued)

Memory Components
HYM
Organization

32200	1M x 9
361120	1M x 36
362120	2M x 36
362500	256 x 36
365120	512 x 36
39500	256 x 9
91000	1M x 9
94500	4M x 9

Package

–	DIP
J	SOJ
Z	ZIP-Gehause
A	Shrink
B	Supershrink

Power

60	60 ns
70	70 ns
80	80 ns

Power

L	Low power
Blank	Standard

Prefix	Device	Suffix
HYM	XXXXX	G S L -6

Organization
Gold Leaded
Mounting
L = SIP
S = SIMM
Power
Speed

SIERRA

SIERRA SEMICONDUCTOR

Temperature Range

C	Commercial 0 to +70 deg. C
E	Extended –40 to +85 deg. C
M	Military –55 to +125 deg. C

Package Type

N	Molded dual in-line
J	Cerdip
D	Ceramic
V	PLCC
M	SOIC
P	PGA

Prefix	Device	Suffix
SC	12345	A B 1

Sierra
Part No.
Temperature Range
Package Type
Speed Selection

SIGNAL PROCESSING TECHNOLOGIES

Family

ADC	Analog to Digital Converter
CMP	Comparator
DAC	Digital to Analog Converter
SCF	Switched Capacitor Filter
SPT	New SPT Products

Electrical Grade

A, B, C	Increasing Grade
S	Single Grade

Temperature

M	–55°C to 125°C
I	–25°C to 85°C
C	0 to 70°C

Package

J	Ceramic Side Brazed
D	Cerdip
C	Leadless Chip Carrier
G	Pin Grid Array
N	Plastic DIP
U	Die
P	Plastic Leaded Chip Carrier

Options/Screening

H	Standard Hi-Rel Screening
E	Compliant to /883 Standards

Prefix	Device	Suffix
HDAC	97000	S I D /±

Family
Electrical Grade
Temperature Range
Package
Options/Screening

SIGNETICS

(See PHILIPS)

SILICON GENERAL

SG	Silicon General

LINEAR ICs
Characteristics

A or B	Improved Electrical Specifications
C	Reduced Temperature Range

Package

M	8 Pin DIL Plastic
N	14, 16, 18, 20, 22, 24, 28, 40 Pin DIL Plastic
W	16 Pin Batwing DIL Plastic
D	8, 14, 16 Pin DIL S.O.I.C. Plastic
DM	8 Pin DIL S.O.I.C. Plastic
DW	16, 18, 20 Pin DIL S.O.I.C. Plastic (Wide Body)
DWW	20 Pin Batwing DIL S.O.I.C. Plastic
R	Metal Can TO-66
K	Metal Can TO-3
P	3, 5, Pin TO-220 Plastic
V	3 Pin TO-247 SIP Plastic
S	12 Pin SIP Plastic
ST	12 Pin SIP Plastic (Metal Tab)

Prefix	Device	Suffix
SG	1524	J

Characteristics
Package

Prefix	Device	Suffix
SM	645	HR 1 K

Construction/ Screening
Particle Control Available only with HR Construction
Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

SILICON GENERAL (continued)

Suffix

Z	2 Pin TO46 Metal Can or 3 Pin TO52 Metal Can
Q	20, 28 Pin Leadless Chip Carrier—Plastic
Y	8 Pin DIL Ceramic
J	14, 16, 18 Pin DIL Ceramic
H	14, 16, 18 Pin DIL Ceramic Side Brazed
F	10, 14, 16, 24 Pin DIL Ceramic (CERPAC)
L	20 Pin Leadless Chip Carrier Ceramic (LCC)
T	3, 8, 10, 12 Pin TO-5 Metal Can
K	3, 4 Pin TO-3 Metal Can
R	3, 4, 5, 9 Pin TO-66 Metal Can
G	3, 5 Pin Hermetic TO-257 Non-Isolated
IG	3, 5 Pin Hermetic TO-257 Isolated

Power Hybrid Circuits

SM	Thick Film Hybrid

SILICON SYSTEMS INCORPORATED

Prefix

SSI	Silicon Systems
Family	
32B	HDD Interface
32C	HDD Controller
32D	HDD Data Recovery
32F	Electronic Filter
32H	HDD Head Positioning
32M	HDD Motor Speed Controller
32P	HDD Pulse Detection
32R	HDD Read/Write Amp
34B	FDD Interface
34D	FDD Data Recovery
34P	FDD Pulse Detection
34R	FDD Read/Write Amp
35P	Tape Drive Pulse Detection
66F	Std. Automotive Products
67F	Std. Automotive Products
73D	Modem Device Set
73K	K-Series Modem
73M	Modem/Modem Support
75T	Tone Signaling
78A	Analog Telecom
78P	Digital Telecom
78Q	LAN Products

Suffix

Temperature Range (0)

C	Commercial (0°C to +70°C)
I	Industrial (–40°C to +85°C)

Package Type (R)

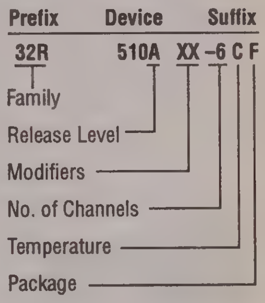
C	Side-brazed Ceramic
F	Flat Pack
G	QFP, Quad Flatpack (2.5mm hgt.)
GT	TQFP, Thin Quad Flatpack (1.4mm hgt.)
GV	Very Thin Quad Flatpack (1.0mm hgt.)
H	PLCC
P	Plastic DIP
T	Metal Can
S	Plastic, Skinny DIP
N	Small Outline, Narrow (150 mil)
L	Small Outline, Large (300 mil)
W	Small Outline, Wide (400 mil)
M	Small Outline, (300 mil) Fine Pitch (0.8mm)
V	Very Small Outline (220 mil) Fine Pitch (0.65mm)
VT	Very Thin Small Outline (1.0mm hgt.)

Release Level (0)
(Revision)
A Through E

Modifiers (0)

F	FAX Capability
J	Burn-In (168 Hours)
K	Burn-In (48 Hours)
L	Low Power
LP	AT Commands, MNP5
LT	AT Commands
LV	AT Commands, MNP5, V.42
LZ	AT Commands, MNP5, V.42, V.42bis
M	Mirror Image
S	Serial Version
SL	Low Power Serial
R	Damping Resistor
RM	Resistor, Mirror Image
U	On-Chip UART

Cannot Use A Through E in Left Position



SILICONIX

Description
(1 or 2 letters)

D	Drivers
DF	Digital Function
DG	Analog Switches and Multiplexers
G	Multi-Channel FETs
L	Linear
LD	Linear Digital Communications
SD	Siliconix DMOS Product
SI	Siliconix Proprietary or Second Source ICs
SM	MOS Power

Operating Temperature Range –ICs (1 Letter)

A	–55°C to +125°C
B	–20°C to + 85°C
C	0°C to + 70°C
D	–40°C to + 85°C

B and D temperature range parts receive industrial processing unless a process option dash number is added

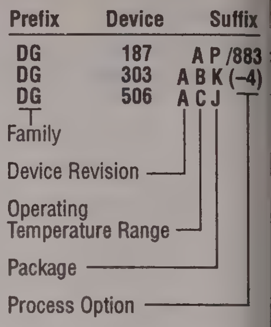
Packages
(1 Letter)

A	Metal Can—Hermetic
J	Dual-In-Line Package—Plastic
K	Dual-In-Line Package—CERDIP
L	Flat Package
M	CLCC
N	PLCC
P	Dual-In-Line Package—Side Braze—Hermetic
R	Dual-In-Line Package—Side Braze—Hermetic
Y	Small Outline Package—Narrow
W	Small Outline Package—Wide

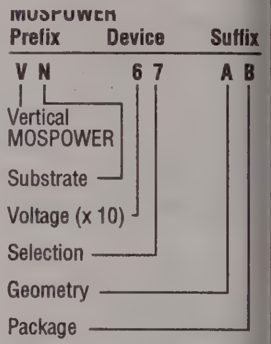
Process Option

/883	MIL-STD-883, Class B Compliant—Non JAN
–2	Non Compliant—Non JAN
(–4)	160 Hour Burn-In
/BS	BS9000 Compliant

For Mil-M-38510 parts, see JAN Nomenclature.



Prefix
Device
Suffix
DG 187 A P /883
DG 303 A B K (–4)
DG 506 A C J
Family
Device Revision
Operating Temperature Range
Package
Process Option



MOSPOWER
Prefix
Device
Suffix
V N 6 7 A B
Vertical MOSPOWER
Substrate
Voltage (x 10)
Selection
Geometry
Package

SIMTEK

STK	Simtek

Part Type

28	EEPROM
1X	NVSRAM

Process

C	CMOS

Density/Organization

256	32K x 8
010	128K x 8
110 or 1024	64K x 16
68	8K x 8
81	256K x 1
88	32K x 8
89	32K x 9

Package

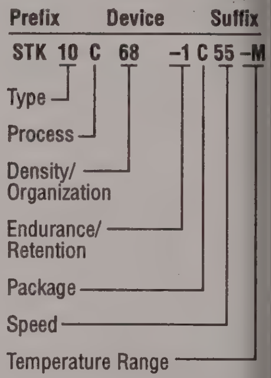
C	300 mil Sidebraze DIP
J	SOJ
L	LCC
P	PDIP
W	600 mil Sidebraze DIP
S	SOIC

Endurance/Retention

—	10^4 cycles/10 year
5	10^5 cycles/10 year

Temperature Range

—	0°C to 70°C
M	–55°C to 125°C
I	–40°C to 85°C



Prefix
Device
Suffix
STK 10 C 68 –1 C 55 –M
Type
Process
Density/ Organization
Endurance/ Retention
Package
Speed
Temperature Range

SIPEX

Family

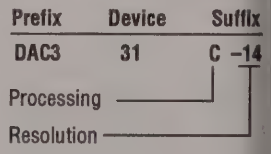
ADC94	Commercial Analog to Digital Converter
DAC3	Digital to Analog Converter
DAC93	Commercial Digtial to Analog Converter
HS5	Analog to Digital Converter
R6	Precision Voltage Reference
HS97	Sample/Hold
HS95	A/D Converter
HS93	D/A Converter

Processing

C	Commercial Industrial Use
B	Per MIL-STD883B, Class B

Resolution

8	8-Bits Binary
10	10-Bits Binary
11	11-Bits Binary
12	12-Bits Binary
14	14-Bits Binary
16	16-Bits Binary
18	18-Bits Binary
2D	2-Decade BCD
3D	3-Decade BCD
4D	4-Decade BCD



Prefix
Device
Suffix
DAC3 31 C –14
Processing
Resolution

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

S–MOS SYSTEMS

SYSTEMS
(Current)

(Product Marketing)

Family

Code	Family
CI	Converter IC
EA	Sensor array
ED	Display driver
LA	Logic array
MC	Microcontrollers and peripherals
MM	Masked ROM
PM	Programmable memories
RM	Static RAM
SC	Standard Cell
TC	Telecom IC
VM	Melody IC

Package

Code	Package
C	Plastic DIP
D	Die form
F	Quad flat package
H	Ceramic DIP
J	Plastic leaded chip carrier
M	Small outline package (SOP)
N	Skinny DIP
S	Shrink DIP

Prefix	Device	Suffix
SRM	2016	C 15

Family
Package
Speed
(15=150 ns)

SOLITRON

Devices, Inc

Prefix	Type
CM	CMOS
UC4xxx	Linear
UC6xxx	PMOS Memory (discontinued)
UC7xxx	PMOS Memory (discontinued)

Process (CMOS)

Code	Process
(None)	Limited Operating Voltage Range
A	3-15 Volt Operating Voltage
B	3-18 Volt Operating Voltage

Package Style, Temperature Range (CMOS)

Code	Package Style, Temperature Range
D	Ceramic DIP, –55°C to 125°C
E	Epoxy DIP, –40°C to 85°C
F	CerDIP (FritSeal) –55°C to 125°C
H	Uncased Die
K	Flatpack, –55°C to 125°C

Package Style, Temperature Range (Linear)

Code	Package Style, Temperature Range
(None)	TO-99, –65°C to 125°C
C	TO-99, 0°C to 70°C
CE	8 lead MINI DIP, 0°C to 70°C
ID	Uncased Die

Prefix	Device	Suffix
CM	4000	AD

Package/Temperature

SONY

Prefix	Type
CX	Sony
BX	Hybrid IC

Category

Code	Category
A	Bipolar
B	Bipolar, Digital
D	MOS Logic
K	Memory
P,Q	Microcomputer
L	PCD Signal Processor

Package

Code	Package
B	5mm x 3mm x 3mm, block shape
Ceramic	Ceramic Cross Package
DIP	Dual Inline Package
FQFP	Metal Quad Flat Package
LCC	Leadless Chip Carrier
PLCC	Plastic Leadless Chip Carrier
QFP	Quad Flat Package
SDIP	Shrink Dual Inline Package
SOP	Small Outline Package
SOJ	Small Outline J-Lead Package
TO-92	Cylindrical Mold Package with 3 pins
TSOP	Thin Small Outline Package
W	TO-3 package
U	9mm diameter, slanted glass cap
U*	5.6mm diameter, slanted glass cap
V	9mm diameter, flat glass cap
VR	V package with a lens and a FC type connector
XR	XT package with a lens and a FC type connector
WT	TO-3 package with a built-in TE cooler
XT	Flat package with a built-in TE cooler

Prefix	Device	Suffix
C X A	1001	A P

Category
Improvement
Package

STAC

Package

Code	Package
CG3	100-Pin Ceramic Pin Grid Array
PC3	68-Pin Plastic Leaded Chip Carrier
PC4	84-Pin Plastic Leaded Chip Carrier
PF4	100-Pin Plastic Quad Flat Pack
PF5	120-Pin Plastic Quad Flat Pack
PL	68-Pin Plastic Leaded Chip Carrier

Prefix	Device	Suffix
	9706	PF4

Package

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

STANDARD MICROSYSTEMS

SMC®

Family

COM	Data Communications
CRT	CRT Display
HDC	Hard Disk
HYC	Hybrid Communications
MSD	Mass Storage Devices
FDC	Floppy Disk Controller
KR	Keyboard Encoders
SMC	Standard Product Devices

Functional Options

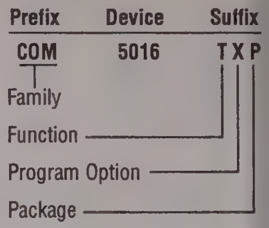
T	TTL Clock Input
H	High Speed
ST	ROM
STD	Program Options
PRO	See Catalog
HR	MIL-STD-883 Level B Equivalent
BI	Burned-In
A, B, C	Speed

Program Options

X or XXX	Specifies Mask Program

Package

No Letter	Ceramic **CD** Cerdip
P	Plastic
LJ	Plastic Leaded Chip Carrier
LL	Leadless Ceramic Chip Carrier
QFP	Quad Flat Pack
SOWP	Small Outline Wide Body Plastic
TQFP	Thin Quad Flat Pack


Prefix
Device
Suffix
COM
5016
T X P
Family
Function
Program Option
Package

STAR SEMICONDUCTOR

Clock Rate:

50	50 MHz
35	35 MHz
20	20 MHz

Package Type:

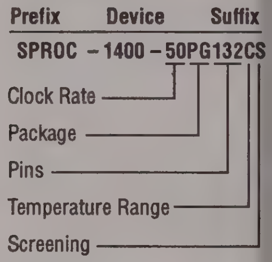
PC	PLCC
PG	Ceramic PGA
PQ	Plastic Quad Flat Pack
MQ	Metal Quad Flat Pack
CQ	Ceramic Quad Flat Pack

Temperature Range:

C	Commercial 0°C to 70°C
I	Industrial –40°C to 85°C
M	Military –55°C to 125°C
B	Military, MIL STD 883C

Screening:

S	Standard
X	Extended
C	Custom


Prefix
Device
Suffix
SPROC – 1400 – 50PG132CS
Clock Rate
Package
Pins
Temperature Range
Screening

STC SEMICONDUCTORS

Family

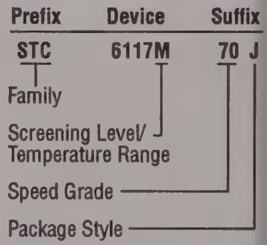
CRT	Video Display Circuits
DSP	Miscellaneous Digital Signal Processing Products
SCA	Analog to Digital Converters
SCC	Comparators
SCD	Digital to Analog Converters
SCS	Sample-and-Hold Devices
SFA	Fiber Optic Amplifiers
SFD	Fiber Optic Drivers
SLM	Multiplexers
SLS	Shift Registers
SMF	FIFOs
STC	Memory Products and Miscellaneous
TEL	Telecomm Products
VAX	VersArray™ Products

Screening Level/Temperature Range

B	BS9000
I	Industrial Temperature Range
M	MIL-STD-883C screened
—	Commercial Temperature Range

Package

C	Chip Carrier
D	Cerdip (frit-sealed DIL)
J	Sidebrazed seramic DIL
N	Plastic DIL
Sx	Skinny (0.3" wide)


Prefix
Device
Suffix
STC
6117M
70 J
Family
Screening Level/ Temperature Range
Speed Grade
Package Style

Manufacturer Device Identification	Part Number Prefix	Suffix

SYNERGY SEMICONDUCTOR

SYNERGY
SEMICONDUCTOR

SY Synergy

Package

PQ	Plastic Quad Flatpack (PQFP)
MQ	MQUAD Flatpack (MQUAD)
E	CERQUAD Flatpack (CQFP)
A	Plastic Pin Grid Array (PPGA)
G	Ceramic Pin Grid Array
J	Plastic Leaded Chip Carrier (PLCC)
H	Ceramic Leaded Chip Carrier (CLCC)
M	Metal Leaded Chip Carrier (MLCC)
P	Plastic Molded DIP (PDIP/MDIP)
R	PQFP with Heat Spreader
X	Other

Temperature Range

C	Commercial (0°C to +70°C)
M	Military (-55°C to +125°C)

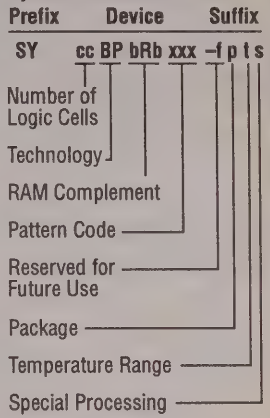
Pattern Code

Unique 3-alpha field which identifies the metallization layers and all options assiciated with the device.

RAM Complement

# blocks + R + # bits in each block (e.g. 64R4 = 64 blocks of 4K each)

System Elements


Prefix
Device
Suffix
SY
cc BP bRb xxx
–f p t s
Number of Logic Cells
Technology
RAM Complement
Pattern Code
Reserved for Future Use
Package
Temperature Range
Special Processing

10	10KH DC Levels With -5.2V ± 5% Supply
100	100K DC Levels With -4.2V ± 4.8% Supply
101	100K DV Levels With -5.2V ± 10% Supply

Package

C	Ceramic Sidebraze DIP
D	CERDIP
E	64 Cerquad with Ring
F	CERPACK (Dual or Quad)
J	PLCC (Plastic Leaded Chip Carrier)
L	LCC (Ceramic Leadless Chip Carrier)
M	MLCC (MQUAD) (Metallic Leaded Chip Carrier)
P	Plastic DIP
S	Ceramic SOIC
Y	Plastic SOJ (Small Outline J-Lead)
X	Other

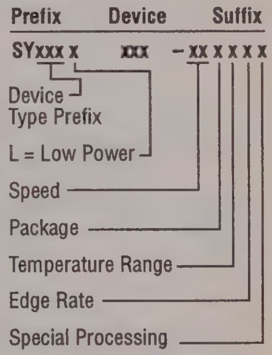
Temperature Range

C	Commercial

Edge Rate Identifier

F	Fast Edge Rate
S	Slow Edge Rate

RAMs


Prefix
Device
Suffix
SYxxx x
xxx
– xx x x x x
Device Type Prefix
L = Low Power
Speed
Package
Temperature Range
Edge Rate
Special Processing

100	100K DC Levels With -4.2V ± 5.46% Supply

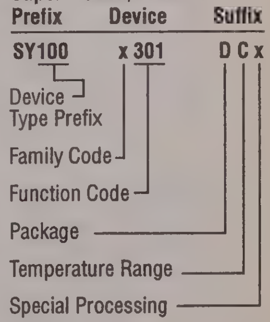
Package

D	CERDIP
F	CERPACK
H	CLCC (Ceramic Leaded Chip Carrier)
J	PLCC (Plastic Leaded Chip Carrier)
S	Ceramic SOIC
X	Other
Z	Plastic SOIC (Small Outline IC)
T	TSOP (Thin Small Outline Package)

Temperature Range

C	Commercial

Translators/ Super – 300K/ECLINPS


Prefix
Device
Suffix
SY100
x 301
D C x
Device Type Prefix
Family Code
Function Code
Package
Temperature Range
Special Processing

When contacting suppliers, say you saw it in IC MASTER

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

TECHNITROL, INC.

Technitrol, Inc.

Family
MEDM 2

Prefix	Device	Suffix
MEDM 2	100	M Y

Frequency 10MHz — 100
Military — M
Special Testing — Y

TELEDYNE COMPONENTS

Temperature

C	0°C to 70°C
M	–55°C to 125°C
I	–25°C to +85°C
E	–40°C to +85°C

Package Types

A	TO–40
B	Plastic Flatpack
F	Preformed DIP, Surface Mount
H	Side-Braze Cerdip
I	TO–220 (Isolated)
J	Cerdip
K	Plastic Gullwing Quad Flat
L	PLCC
M	SOT
N	LCC
O	SOIC
P	Plastic DIP
R	TO–52
S	Plastic Flat Pack
T	TO-99
V	8-Pin Plastic
Y	Dice
Z	TO–92

Prefix	Device	Suffix
	TC7109	C P

Temperature — C
Package — P

TELEFUNKEN

Note:
ICs are marked **TFK**

Prefixes Assigned by the European Association "PRO ELECTRON" (See Pro Electron)
Proprietary Devices

U	Integrated Circuits	**B**	Bipolar
		M	MOS

Prefix	Device	Suffix
U	113	B

TEXAS INSTRUMENTS

AC	Advanced Bipolar Circuits
SBP	Bipolar Microprocessor
SMJ	NOS Memory and Microprocessor 883B
SN	Standard Circuit
SNJ	Standard Circuit: 883B, JEDEC Std 101
TAC	CMOS Logic Array
TAL	Low-Power Schottky TTL Logic Array
TAT	STL Logic Array
TL	Linear Circuit
TLC	LinCMOS™ Circuit
TIEF	Transimpedance Amplifiers
TIES	Infrared Source
TIFPLA	Bipolar Field Programmable Logic Array
TIBPAL	Bipolar Programmable Logic Array
FP	Rect. Chip Carrier for DRAMs
TMS	MOS Memory/Microprocessor In-Line Package Memory Module
TBP	Bipolar Memory
TC	CCD Imager
TCM	Telecommunications IC
TIED	Infrared Detector
TIL	Optoelectronic Circuit
VM	Voice Memory Circuit
JANB	JM8510—Qualified Circuits, Level B
JBP	Bipolar PROM: 883C, JEDEC Std 101

Package

JT	Ceramic DIP, 24-Pin, 300-mil
J, JG	Ceramic DIP
JD	Side braze ceramic DIP
KA, KC, KD, KF	Plastic power tab
LP	Plastic 3-lead
N, NE	Plastic DIP
N	Plastic DIP
T	Metal Flat Pack
WA, W	Ceramic Flat Pack
NT	Plastic DIP, 24 pin 300 mil
U	Ceramic Flat Pack
NF	Plastic DIP, 28 pin 400 mil
FH	Ceramic Single Layer Sq. Chip Carrier JEDEC
FN	Plastic Single Layer Sq. Chip Carrier
FK	Multi-Layer Sq. Chip Carrier JEDEC Standard
FE	Multi-Layer Rect. Chip Carrier
WC	Ceramic Flat Pack
FG	Multi-Layer Rect. Chip Carrier JEDEC Standard
D	Small-outline Package, 150 mil
DW	Small-outline Package, 300 mil
FM	Rect. Chip Carrier for DRAMs
DJ	Small-outline Package

Prefix	Device	Suffix
SN 74	S188	J

Description — SN
Temperature Range — 74
Package — J

Prefix	Device	Suffix
TMS	4256	–15 N L

Speed — –15
Package — N
Temperature Range — L

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

TEXAS INSTRUMENTS (continued)

Temperature (Most Devices) Digital & Interface Prefixes

Series −55°C to 125°C	Series 0°C to 70°C
54	74
54H	74H
54L	
54LS	74LS
54S	74S
55	75
54AS	74AS
54HS/54HCT	74HC/74HCT*
54ALS	74ALS
54F	74F
54BCT	74BCT

J-Lead Package, Memory
Low-power TTL
Low-power Schottky TTL
Schottky TTL
Standard Interface Circuits
Advanced Schottky TTL
High Speed CMOS
Advanced Low-power Schottky TTL
Advanced Circuits

*–40° to 85°C

Bipolar Suffixes

C	0°C to 70°C
E	–40°C to 85°C
I	–25°C to 85°C or
*	–40°C to 85°C
M	–55°C to 125°C

MOS Suffixes

L	0°C to 70°C
M	–55°C to 125°C
E	–40°C to 85°C
S	Special Range
—	0°C to 70°C

Speed (MOS only)

—15	150 ns Max. Access
—17	170 ns Max. Access
—20	200 ns Max. Access
—25	250 ns Max. Access
—35	350 ns Max. Access
—45	450 ns Max. Access
— 2	200 ns Max. Access
— 3	350 ns Max. Access
— 4	450 ns Max. Access

THALER

Family

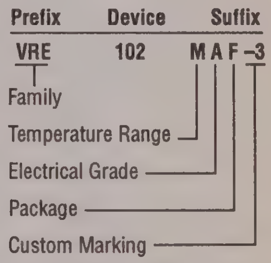
ADC	Analog to Digital Converter
VRE	Voltage Reference
SWR	Sine Wave Reference

Temperature Range

C	–25°C to 85°C
M	–55°C to 125°C

Package

—	Dual-in-Line, Ceramic
F	Flatpack, Metal


Prefix
Device
Suffix
VRE
102
M A F -3
Family
Temperature Range
Electrical Grade
Package
Custom Marking

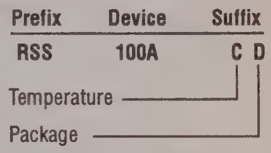
THIRD DOMAIN

Temperature Range

C	Commercial 0°C to 70°C
M	–5°C to 125°C

Package

D	Ceramic DIP
N	Plastic DIP


Prefix
Device
Suffix
RSS
100A
C D
Temperature
Package

TOSHIBA

Memory Family

TC	CMOS Memory

Process

5	CMOS Memory

Type

1	DRAM/PSRAM
2	VDRAM
3	MROM
4	OTP
5	CMOS SRAM
7	UV EPROM
8	FEEPROM

Organization or Density Examples:

TC5588	8K x 8 CMOS
TC5589	8K x 9 CMOS
TC11000	1 MBx1
TC511000	Fast Page
TC511001	Nibble Mode
TC511002	Static Column
TC55B329	32K x 9 BiCMOS

Package

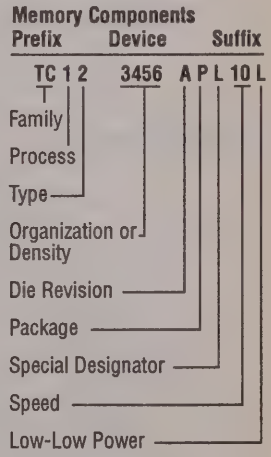
C	Ceramic
D	Cerdip
P	Plastic DIP
F	Flat Pack SOIC
FT	Normal TSOP
TR	Reverse TSOP
J	Plastic SOJ
T	PLCC
Z	ZIP
SZ	Shrink ZIP

Special Designator

I	Industrial –40°C to 85°C
L	Low Power
LV	Low Voltage (3.3V)

Speed (Example)

85	85 ns
10	100 ns


Memory Components
Prefix
Device
Suffix
TC 1 2
3456
A P L 10 L
Family
Process
Type
Organization or Density
Die Revision
Package
Special Designator
Speed
Low-Low Power

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

TOSHIBA (continued)

Memory Modules Family

THM	Memory Module
—	DRAM
S	SRAM
V	Video RAM
P	EPROM
M	MROM
T	OTP
E	EEPROM
U	Pseudo SRAM

Bit

8	8 bit
9	9 bit
18	18 bit
32	32 bit
36	36 bit
40	40 bit

Word

10	1M word
20	2M word
51	512K
25	256K

Microprocessors

TMP	Microprocessor Microcontroller
TC	CMOS Peripheral Controller

Logic

TC	CMOS
TD	BiCMOS

Assembly Method

Odd	Single Side
Even	Double Side

Function

0	Standard
0	Fast Page
1	Nibble
2	Static Column

Pin Type

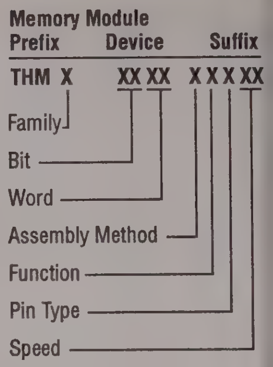
S	Socket
L	Pin
Z	Zig Zag Inline

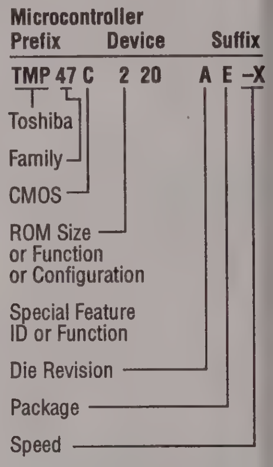
Speed (Example)

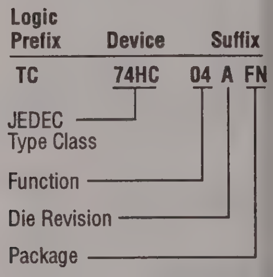
85	85 ns
10	100 ns

Package

P	Plastic DIP
F	Flat Pack
T	PLCC
N	Shrink DIP
P	Plastic DIP
FN	150 mil SOIC
F	200 mil SOIC
FW	300 mil SOIC
FS	170 mil SSOP Type II


Memory Module
Prefix
Device
Suffix
THM X
XX XX
X X X XX
Family
Bit
Word
Assembly Method
Function
Pin Type
Speed


Microcontroller
Prefix
Device
Suffix
TMP 47 C
2 20
A E -X
Toshiba
Family
CMOS
ROM Size or Function or Configuration
Special Feature ID or Function
Die Revision
Package
Speed


Logic
Prefix
Device
Suffix
TC
74HC
04 A FN
JEDEC Type Class
Function
Die Revision
Package

TRANSWITCH

TXC	TranSwitch

Functional Variants

A	Standard Product
B-W	Special or Enhanced Variants

Temperature Range

C	Commercial (0°C to +70°C)
M	Military (-40°C to +85°C)

Package

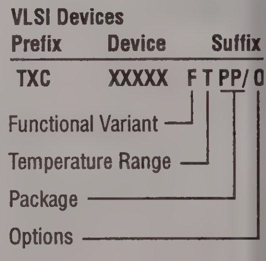
PD	Plastic DIP
PL	Plastic Leaded Chip Carrier
CL	Ceramic Leaded Chip Carrier
CN	Ceramic Leadless Chip Carrier
PG	Plastic Pin Grid Array
CG	Ceramic Pin Grid Array
PQ	Plastic Quad Flat Pack (EIAJ)
CQ	Ceramic Quad Flat Pack (EIAJ)
MM	Multi-Chip Module

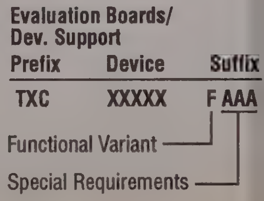
Options

–	Standard
B	Burn-In at 125°C for 96 Hours

Special Requirement

AAA	Standard


VLSI Devices
Prefix
Device
Suffix
TXC
XXXXX
F T PP/ O
Functional Variant
Temperature Range
Package
Options


Evaluation Boards/ Dev. Support
Prefix
Device
Suffix
TXC
XXXXX
F AAA
Functional Variant
Special Requirements

TRW LSI PRODUCTS

Family

MPY	Triple Diffused Bipolar Multipliers
TDC	TRW Triple Diffused Bipolar Catalog
TMC	TRW CMOS Catalog Products
THC	TRW Hybrid I.C.'s
TAC	TRW Board Products

Screening and Temperature

A	ETR/High Reliability
B	Industrial, $T_C = -25°C$ to 85°C
C	Commercial, $T_A = -55°C$ to 70°C
F	Commercial −55°C to 125°C
V	883C compliant $T_C = -55°C$ 125°C

Note: See individual data sheets for specified temperature ranges for each product.

Package

A1	68 Contact Hermetic Ceramic Leadless Chip Carrier
B2	24 Pin CERDIP (0.3 in.)
B3	20 Pin CERDIP
B4	8 Pin CERDIP
B5	40 Pin CERDIP
B6	28 Pin CERDIP
B7	24 Pin CERDIP
B8	18 Pin CERDIP
B9	16 Pin CERDIP
C1	68 Contact Hermetic Ceramic Leadless Chip Carrier
C2	44 Contact Hermetic Ceramic Leadless Chip Carrier
C3	28 Contact Hermetic Ceramic Leadless Chip Carrier
E1	Printed Circuit Board, Eurocard Format (100mm x 160mm)
G0	68 Pin Ceramic Grid Array (cavity down with heatsink)
G5	88 Pin Ceramic Grid Array
G8	68 Pin Ceramic Grid Array
H5	120 Pin Plastic Grid Array
H7	88 Pin Plastic Grid Array
H8	68 Pin Plastic Grid Array
J0	64 Pin Hermetic Ceramic DIP (without Heat Sink, lid up)
J1	64 Pin Hermetic Ceramic DIP (with Flat Heat Sink)
J3	64 Pin Hermetic Ceramic DIP (without Heat Sink, lid down)
J4	48 Pin Hermetic Ceramic DIP
J5	40 Pin Hermetic Ceramic DIP
J6	28 Pin Hermetic Ceramic DIP
J7	24 Pin Hermetic Ceramic DIP
J8	18 Pin Hermetic Ceramic DIP
J9	16 Pin Hermetic Ceramic DIP
L1	68 Lead Hermetic Ceramic Leaded Chip Carrier
L3	84 Lead Hermetic Ceramic Leaded Chip Carrier (0.025 in. pitch)
L4	100 Lead Hermetic Ceramic Leaded Chip Carrier (0.025 in. pitch)
L5	132 Lead CERQUAD
L6	100 Lead CERQUAD
N0	64 Pin Plastic DIP
N4	48 Pin Plastic DIP
N5	40 Pin Plastic DIP
N6	28 Pin Plastic DIP
N7	24 Pin Plastic DIP
N8	18 Pin Plastic DIP (PDIP)
N7	24 Pin Plastic DIP
NH	8 Pin Plastic DIP (PDIP)
P1	Printed Circuit Board, Standard Format (4.5 in.x 5.5 in.)
P3	Printed Circuit Board, 5 in. x 7 in.
R0	84 Lead Plastic J-Leaded Chip Carrier
R1	68 Lead PLCC
R2	44 Lead Plastic J-Leaded Chip Carrier
R3	28 Lead PLCC
R4	20 Lead Plastic J-Leaded Chip Carrier
R6	32 Lead Plastic J-Leaded Chip Carrier
S3	46 Pin Hermetic Metal DIP
S5	32 Pin Hermetic Metal DIP
S6	40 Pin Hermetic Ceramic DIP
S7	24 Pin Hermetic Metal DIP
X1	12 Lead to TO-8 Metal Can
X2	24 Pin Ceramic DIP (0.8 in. wide)
Y8	8 Lead Metal Can
Z3	3 Lead TO-92-Style Molded Plastic

Prefix	Device	Suffix
TMC	2210	N0 C 1

Family

Package

Temperature Range and Screening

Electrical Variation

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

UNITED TECHNOLOGIES MICROELECTRONICS CENTER

Package

A	Ceramic Leadless Chip Carrier
B	Ceramic Side-Brazed, Dual Cavity Dual-In-Line
C	Ceramic Flatpack, Dual Cavity
D	Ceramic Flatpack, Dual Cavity (100 mil-lead centers)
G	Ceramic Pingrid Array
P	Ceramic Side-Brazed, Dual-In-Line
W	Ceramic Flatpack

Manufacturing Flow

S	Level S processing to select methods of 5004 and Group A of Method 5005
B	Class B (Compliant non-JAN)
A	Level B 5004 screened (Does not include Method 5005.)
C	Modified high-reliability flow (–55°C to 125°C. Not available with radiation hardening.)
P	Prototype (Not available with radiation hardneing. Lead finish is at factory discretion.)

Prefix	Device	Suffix
UT	1553BRTI	G A

Package — G
Processing — A

USAR SYSTEMS

USAR
systems

Family

UR 5	Keyboard Electronics
UR 6	Protocol converters
K	Custom Keypad and Control Panel Encoders
S	Serial Encoders

Temperature Range

–	0°C to +70°C
C	-40°C to +85°C

Package

P	Dual-In-Line
FN	PLCC
FB	Quad Flat Pack

Prefix	Device	Suffix
URS	HC449	C P

Temperature Range — C
Package — P

VITESSE SEMICONDUCTOR

VITESSE
SEMICONDUCTOR CORPORATION

VS	Vitesse Semiconductor

Family

80XX	Standard Logic
12G4XX	SRAM

Package

L	Leadless Chip Carrier
F	Leaded Chip Carrier
D	DIP

Temperature Range

C	Commercial
I	Industrial (–40°C to 85°C)
M	Military (–55°C to 125°C)

Standard Logic

Prefix	Device	Suffix
VS	80XX	L I

Family — 80XX
Package — L
Temperature — I

RAMs

Prefix	Device	Suffix
VS	12G4XX	L C –5

Family — 12G4XX
Package — L
Temperature Range — C
Speed (ns) — –5

Manufacturer Device Identification	Part Number: Prefix	Part Number: Suffix

VLSI TECHNOLOGY

VLSI TECHNOLOGY, INC.

VC	Custom
VF	Foundry
VG	Gate Array
VL	Logic
VM	Government
VP	Programmable Devices
VS	User-Designed VLSI
VT	Memory
VU	Design Center

Temperature Range

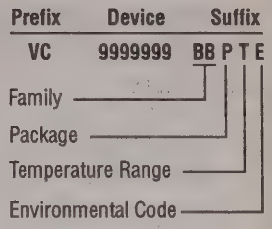
C	Commercial
I	Industrial
M	Military

Package

A	Sidebrazed Ceramic DIP (EPROM)
C	Sidebrazed Ceramic DIP
D	Cerdip
F	Flatpack
G	Ceramic Pin Grid Array
K	Leadless Chip Carrier (EPROM)
L	JEDEC Type-B Ceramic Leadless Chip Carrier
P	Plastic DIP
Q	Plastic Leaded Chip Carrier
T	Ceramic Leaded Chip Carrier
V	Die-Plated
W	Die in Wafer Form
Y	DIP on PC Board
Z	Chip on PC Board

Environmental Code

B	Mil-Std-883C, Level B
Blank	Standard Screening
I	Military-Screened
J	Mil-M-38510


Prefix
Device
Suffix
VC
9999999
BB P T E
Family
Package
Temperature Range
Environmental Code

VTC INCORPORATED

VTC Incorporated

Additional Processing

B	Burn-in (168 Hrs, $T_J = 150°C$ or Equivalent)
J	Screened to Class B, Mil Std 883
R	Rad Hard
None	No Additional Processing

Additional Processing

B	Burn-in (168 Hrs, $T_J = 150°C$ or Equivalent)
J	Screened to Class B, Mil Std 883
R	Rad Hard
None	No Additional Processing

Temperature Range

74	Commercial (–40°C to 85°C)
54	Military (–55°C to 125°C)

Package

P	Plastic DIP
PS	Plastic Slimline DIP
S	Ceramic DIP (Cerdip)
DS	Ceramic Slimline DIP (Cerdip)
PL	Plastic Leaded Chip Carrier (PLCC)
DL	Ceramic Leadless Chip Carrier (LCC)
PO	Plastic SOIC

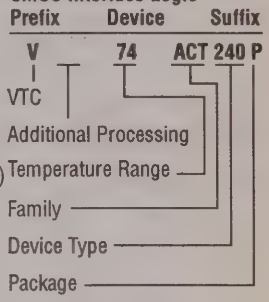
Temperature Range/Performance

A thru I	Industrial (–25°C to +85°C)
J thru R	Commercial (0°C to 70°C)
S thru Z	Military (–55°C ro +125°C)

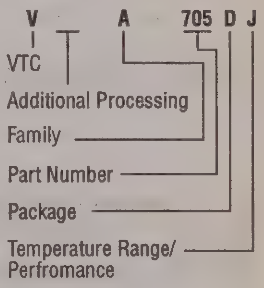
Package

P	Plastic DIP
PS	Plastic Slimline DIP
D	Ceramic DIP (Cerdip)
J	Side Brazed Ceramic DIP
T	Metal Can
G	Pin Grdi Array
F	Flatpack
PL	Plastic Leaded Chip Carrier (PLCC)
DL	Ceramic Leaded Chip Carrier (LCC)
X	Die

CMOS Interface Logic


Prefix
Device
Suffix
V
74
ACT 240 P
VTC
Additional Processing
Temperature Range
Family
Device Type
Package

Bipolar Products


V
A
705 D J
VTC
Additional Processing
Family
Part Number
Package
Temperature Range/
Perfromance

WSI

WAFERSCALE INTEGRATION, INC.

Family Group

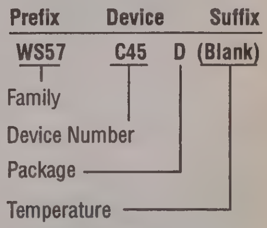
57CXXX	Fast EPROM, PROM & RPROM
59XXX	Bit Slice & Logic
27CXXX	Slow EPROM Memory
PAC	Programmable Standalone Microcontroller
SAM	Programmable Standalone Microsequencer
PSD	Programmable Microcontroller Peripheral

Package

A	Plastic Pin Grid Array
B	Ceramic SDBRZD DIP, 0.9"
C	CLLCC
D	Cerdip, 0.6"
F	Ceramic Flatpack
G	Ceramic Pin Grid Array
H	Ceramic Flatpack
J	PLDCC
K	Cerdip, 0.6"
L	CLDCC
M	Plastic DIP, 0.9"
P	Plastic DIP, 0.6"
S	Plastic Dip, 0.3"
T	Cerdip, 0.3"
W	Waffle Packed Dice
X	Ceramic Pin Grid Array
Y	Cerdip, 0.6"
Z	CLLCC

Temperature Range

Blank	Commercial
M	Mil Temperature
I	Industrial
MB	Mil Std 883B


Prefix
Device
Suffix
WS57
C45
D (Blank)
Family
Device Number
Package
Temperature

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

WESTERN DESIGN CENTER

WDC

Package

P	Plastic DIL, 44 pins
PL	Plastic Chip Carrier, 44 pins
Q	Quad Flat Pack, 44 pins

Temperature Range

Blank	0°C to +70°C
I	−40°C to +85°C

Performance

8	8 MHz
10	10 MHz
E	Engineering

Prefix **Device** **Suffix**

W 65C816S P I -8

Family

Package

Temperature Range

Performance

WESTERN DIGITAL

WESTERN DIGITAL CORPORATION

Package (Obsolete)

A	40 Lead DIP-Ceramic
B	40 Lead DIP-Relpak
C	24 Lead DIP-Ceramic
E	28 Lead DIP-Ceramic
F	28 Lead DIP-Relpak
L	18 Lead DIP-Ceramic
M	18 Lead DIP-Plastic (Totally Encapsulated)
P	40 Lead DIP—Plastic (Totally Encapsulated)
R	28 Lead DIP-Plastic (Totally Encapsulated)
T	48 Lead DIP-Ceramic
U	20 Lead DIP-Ceramic
V	20 Lead DIP-Plastic (Totally Encapsulated)
X	Ceramic Kit
Y	Plastic Kit

Package (Current)

A	Ceramic Side Braze
C	Cerdip
P	Plastic (Encap)
D	Ceramic Chip Carrier-Leadless
G	Ceramic-Chip Carrier-Leaded
H	Plastic Chip Carrier-Leadless
J	Plastic Chip Carrier-Leaded

Lead Count

A	< 14 Lead
B	14 Lead
C	16 Lead
D	18 Lead
E	20 Lead
F	22 Lead
G	24 Lead
H	28 Lead
L	40 Lead
M	44 Lead
N	48 Lead
S	64 Lead
T	68 Lead
Z	Kit

Prefix **Device** **Suffix**

WD 1943 M 00

Package

Special Parameter

WHITE TECHNOLOGY

White Technology, Inc.

XICOR

Xicor®

X Xicor

Package

D	Ceramic DIP
E	Ceramic DIP
H	Die
J	Plastic LDCC
P	Plastic DIP

Temperature Range

Blank	0 to 70°C
I	−40 to 85°C
M	−50 to 125°C

E²PROMs

Prefix **Device** **Suffix**

X 255C256 D M B -35

Process Technology

Package

Temperature Range

Processing Level

Access Time

Serial E²PROMs

Manufacturer Device Identification	Part Number Prefix	Part Number Suffix

XICOR (continued)

Processing Technology

Blank	NMOS
C	CMOS

Speed

20	200 ns
25	250 ns
Blank	300 ns
35	250 ns
45	450 ns

Processing Level

Blank	Standard
B	Class B

Endurance

Blank	1000 Data Changes/Bit
/5	5000 Data Changes/Bit
/10	10000 Data Changes/Bit

Serial E²PROMs

Prefix	Device	Suffix
X	25C04	D M B

Package
Temperature Range
Processing Level

NOVRAMs

Prefix	Device	Suffix
X	2212	D M B/10 -35

Package
Temperature Range
Processing Level
Endurance
Access Time

Serial NOVRAMs

Prefix	Device	Suffix
X	2444	D M /10

Package
Temperature Range
Endurance

XILINX

XC XILINX

XILINX

Temperature Range

C	Commercial (0°C to 70°C)
I	Industrial (–40°C to 85°C)
M	Military (–55°C to 125°C)
B	MIL-STD-883, Class B

Prefix	Device	Suffix
XC	2064–	70 PC 68 C

Toggle Rate
Package
No. of Pins
Temperature Range

ZILOG

Z Zilog

Zilog
an affiliate of
EXXON Corporation

Package
Preferred

D	Cerdip
P	Plastic DIP
V	Plastic Leaded Chip Carrier

Longer Lead Time

C	Ceramic Sidebrazed
E	Ceramic Window Lid
F	Plastic Quad Flatpack
G	Ceramic PGA (Pin Grid Array)
K	Cerdip Window Lid
L	Ceramic LCC (Leadless Chip Carrier)
R	Ceramic Protopak
S	SOIC (Small Outline Integrated Circuit)
T	Low Profile Protopak

Environmental
Preferred

C	Plastic Standard
E	Hermetic Standard
F	Protopak Standard

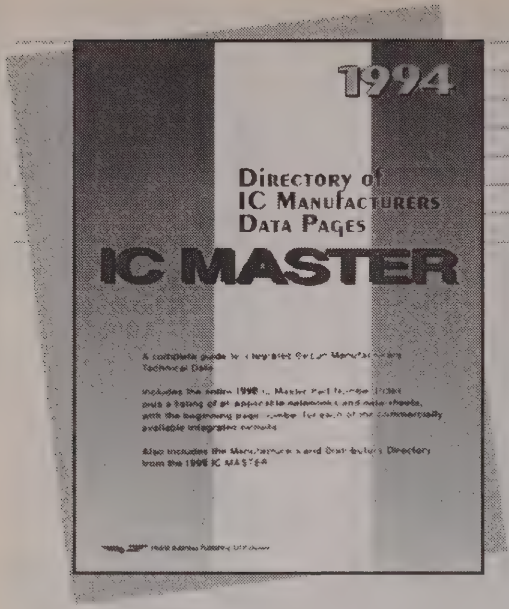
Longer Lead Time

A	Hermetic Stressed
B	883 Class B Military
D	Plastic Stressed
J	JAN 38510 Military

Prefix	Device	Suffix
Z	84C12	16 G S E XXXX

Speed
Package
Temperature
Environmental Flow
Special Lot Number

Last Page This Section. Next Page Is 2101



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Published annually in February

PART NUMBER INDEX

This Index shows the page and line where each device appears in the Master Selection Guide.

The Index is arranged in alphanumeric sequence, ignoring the manufacturers' prefixes and suffixes and using the basic part numbers.

The numbers are sequenced by reading the digits from left to right, assuming that letters come before numbers. (As an example, these numbers would appear in the following order: 5301, 531, 54LS01, 54139, 555.)

After each base number, manufacturers' names and full part numbers are listed. This arrangement allows you to find a device whether or not you know the name of the manufacturer or the manufacturer's prefixes. The page references in **BOLD FACE** lead to manufacturers' data pages in Volume Three.

This is an Index of all parts with identical basic part numbers, regardless of their function. **It is not an Alternate Source Directory.**

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	Harris	CA3045	705-15
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54ACT11002	TI	SN54ACT11002	139-8
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54ACT11004	TI	SN54ACT11004	109-3
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54ACT11008	TI	SN54ACT11008	135-98
		54ACT11008	135-99
54ACT11010	TI	SN54ACT11010	136-105
		54ACT11010	136-106
54ACT11011	TI	SN54ACT11011	135-81
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54ACT11021	TI	SN54ACT11021	135-1
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54ACT11027	TI	SN54ACT11027	138-153
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54ACT11030	TI	SN54ACT11030	137-81
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54ACT11074	TI	SN54ACT11074	129-75
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54ACT11086	TI	54ACT11086	139-169
54ACT1110	National	54ACT1110	103-106
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54ACT11241	TI	SN54ACT11241	129-48
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54ACT11352	TI	54ACT11352	144-142
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54ACT11377	TI	54ACT11377	131-104
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54ACT16640	TI	54ACT16640	117-53
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54BCT956	TI	SN54BCT956	158-83
54BCT957	TI	SN54BCT957	158-84
54BCT958	TI	SN54BCT958	158-85
54BCT959	TI	SN54BCT959	158-86
54CT2525	National	CGS54CT2525	151-114
54CT2526	National	CGS54CT2526	151-118
54C00	National	MM54C00	136-132
54C02	National	MM54C02	139-16
54C04	Micrel	MM54C04	109-11
	National	MM54C04	109-12
54C08	National	MM54C08	135-105
54C10	National	MM54C10	136-59
54C107	National	MM54C107	134-66
54C138	Harris	HS54C138RH	125-97
54C14	Micrel	MM54C14	153-137
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54C150	National	MM54C150	147-173
54C151	National	MM54C151	147-23
54C154	National	MM54C154	126-98
54C157	National	MM54C157	145-97
54C160	Micrel	MM54C160	122-93
	National	MM54C160	122-94
54C161	Micrel	MM54C161	118-117
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54C162	Micrel	MM54C162	122-53
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54C163	Micrel	MM54C163	119-45
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54C164	National	MM54C164	150-16
54C165	National	MM54C165	149-168
54C173	Micrel	MM54C173	130-21
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54C175	Micrel	MM54C175	129-159
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54C192	Micrel	MM54C192	122-137
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54C193	Micrel	MM54C193	119-133
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54C195	National	MM54C195	149-86
54C20	National	MM54C20	135-189
54C200	Micrel	MM54C200	144-85 1120-53
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54C221	National	MM54C221	148-6
54C240	Micrel	MM54C240	110-86
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54C244	Micrel	MM54C244	111-4
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54C2525	National	CGS54C2525	151-115
54C2526	National	CGS54C2526	151-119
54C30	National	MM54C30	137-48
54C32	National	MM54C32	138-48
54C373	National	MM54C373	140-105
54C374	Micrel	MM54C374	132-119
	National	MM54C374	132-120
54C42	Micrel	MM54C42	124-70
	National	MM54C42	124-71
54C48	National	MM54C48	124-109
54C73	National	MM54C73	134-67
54C74	National	MM54C74	129-80
54C76	National	MM54C76	134-17
54C83	National	MM54C83	102-49
54C85	Micrel	MM54C85	103-65
	National	MM54C85	103-66
54C86	Micrel	MM54C86	139-105
	National	MM54C86	139-106
54C89	Micrel	MM54C89	144-78
	National	MM54C89	144-79
54C90	National	MM54C90	122-84
54C901	Micrel	MM54C901	106-41
	National	MM54C901	106-42
54C902	Micrel	MM54C902	106-44
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54C903	Micrel	MM54C903	106-4
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54C905	Micrel	MM54C905	153-36
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54C906	Micrel	MM54C906	105-175
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54C907	Micrel	MM54C907	106-1
	National	MM54C907	106-2
54C909	National	MM54C909	151-124 714-38
54C910	National	MM54C910	144-96
54C914	Micrel	MM54C914	153-138
	National	MM54C914	153-140
54C915	National	MM54C915	610-61
54C922	National	MM54C922	613-3
54C923	National	MM54C923	613-5
54C93	National	MM54C93	120-93
54C932	National	MM54C932	801-40
54C941	Micrel	MM54C941	106-158 615-34
	National	MM54C941	106-159 615-44
54C95	National	MM54C95	149-30
54C989	National	MM54C989	144-42 1119-55
54FBT2240	IDT	IDT54FBT2240	155-63
		IDT54FBT2240A	155-64
		IDT54FBT2240C	155-65
54FBT2244	IDT	IDT54FBT2244	155-83
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54FBT2373	IDT	IDT54FBT2373	157-87
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		IDT54FBT2373C	157-89
54FBT240	IDT	IDT54FBT240	155-66
		IDT54FBT240A	155-67
		IDT54FBT240C	155-68
54FBT241	IDT	IDT54FBT241	155-86
		IDT54FBT241A	155-87
		IDT54FBT241C	155-88
54FBT244	IDT	IDT54FBT244	155-89
		IDT54FBT244A	155-90
		IDT54FBT244C	155-91
54FBT245	IDT	IDT54FBT245	156-45
		IDT54FBT245A	156-46
		IDT54FBT245C	156-47
54FBT2827	IDT	IDT54FBT2827A	155-119
		IDT54FBT2827B	155-120
54FBT2828	IDT	IDT54FBT2828A	155-107
		IDT54FBT2828B	155-108
54FBT2841	IDT	IDT54FBT2841A	143-105
		IDT54FBT2841B	143-106
		IDT54FBT2841C	143-107
54FBT373	IDT	IDT54FBT373	157-81
		IDT54FBT373A	157-82
		IDT54FBT373C	157-83
54FBT374	IDT	IDT54FBT374	157-38
		IDT54FBT374A	157-39
		IDT54FBT374C	157-40
54FBT540	IDT	IDT54FBT540	155-69
		IDT54FBT540A	155-70
		IDT54FBT540C	155-71
54FBT541	IDT	IDT54FBT541	155-37
		IDT54FBT541A	155-38
		IDT54FBT541C	155-39
54FBT821	IDT	IDT54FBT821A	156-100
		IDT54FBT821B	156-101
		IDT54FBT821C	156-102
54FBT823	IDT	IDT54FBT823A	156-81
		IDT54FBT823B	156-82
		IDT54FBT823C	156-83
54FBT827	IDT	IDT54FBT827A	155-121
		IDT54FBT827B	155-122
		IDT54FBT827C	155-123
54FBT828	IDT	IDT54FBT828A	155-109
		IDT54FBT828B	155-110
		IDT54FBT828C	155-111
54FBT841	IDT	IDT54FBT841A	157-141
		IDT54FBT841B	157-142
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54FCT138	IDT	IDT54FCT138	125-98
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		IDT54FCT138AT	125-100
		IDT54FCT138C	125-101
		IDT54FCT138CT	125-102
		IDT54FCT138T	125-103
	National	54FCT138	125-110
		54FCT138A	125-111
	Performance	P54FCT138	125-114
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		P54FCT138AT	125-116
		P54FCT138C	125-117
		P54FCT138CT	125-118
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	Quality Semi	QS54FCT138	125-126
		QS54FCT138A	125-127
		QS54FCT138B	125-128
		QS54FCT138C	125-129
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		IDT54FCT139C	124-170
		IDT54FCT139CT	124-133
		IDT54FCT139T	124-134
	Performance	P54FCT139	124-174
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		P54FCT139AT	124-176
		P54FCT139C	124-177
		P54FCT139CT	124-178
		P54FCT139T	124-179
	Quality Semi	QS54FCT139	125-3
		QS54FCT139A	125-4
		QS54FCT139B	125-5
		QS54FCT139C	125-6
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54FCT151	IDT	IDT54FCT151AT	147-156
		IDT54FCT151CT	147-157
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	Quality Semi	QS54FCT151	147-29
		QS54FCT151A	147-30
54FCT153	Quality Semi	QS54FCT153	146-168
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54FCT157	IDT	IDT54FCT157AT	146-86
		IDT54FCT157CT	146-87
		IDT54FCT157T	146-88
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		P54FCT157CT	145-100
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	Quality Semi	QS54FCT157	145-70
		QS54FCT157A	145-71
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54FCT158	Performance	P54FCT158AT	146-43
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	Quality Semi	QS54FCT158	146-46
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54FCT158	Quality Semi		(Cont'd)
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		IDT54FCT161AT	120-16
		IDT54FCT161C	118-124
		IDT54FCT161CT	120-17
		IDT54FCT161T	120-18
	Performance	P54FCT161	118-128
		P54FCT161A	118-129
		P54FCT161AT	118-130
		P54FCT161CT	118-131
		P54FCT161T	118-132
	Quality Semi	QS54FCT161	118-143
		QS54FCT161A	118-144
		QS54FCT161C	118-145
54FCT162240	IDT	IDT54FCT162240AT	108-111
		IDT54FCT162240CT	108-112
		IDT54FCT162240T	108-113
54FCT162244	IDT	IDT54FCT162244AT	108-114
		IDT54FCT162244CT	108-115
		IDT54FCT162244T	108-116
54FCT162245	IDT	IDT54FCT162245AT	118-4
		IDT54FCT162245CT	118-5
		IDT54FCT162245T	118-6
54FCT162373	IDT	IDT54FCT162373AT	143-121
		IDT54FCT162373CT	143-122
		IDT54FCT162373T	143-123
54FCT162374	IDT	IDT54FCT162374AT	117-61
		IDT54FCT162374CT	117-62
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54FCT16240	IDT	IDT54FCT16240AT	117-16
		IDT54FCT16240CT	117-17
		IDT54FCT16240T	117-18
54FCT16244	IDT	IDT54FCT16244AT	117-34
		IDT54FCT16244CT	117-35
		IDT54FCT16244T	117-36
54FCT16245	IDT	IDT54FCT16245AT	118-7
		IDT54FCT16245CT	118-8
		IDT54FCT16245T	118-9
54FCT162500	IDT	IDT54FCT162500AT	118-33
		IDT54FCT162500CT	118-34
54FCT162501	IDT	IDT54FCT162501AT	118-42
		IDT54FCT162501CT	118-43
54FCT162543	IDT	IDT54FCT162543AT	118-10
		IDT54FCT162543CT	118-11
		IDT54FCT162543DT	118-12
		IDT54FCT162543T	118-13
54FCT162646	IDT	IDT54FCT162646AT	117-109
		IDT54FCT162646CT	117-110
		IDT54FCT162646T	117-111
54FCT162652	IDT	IDT54FCT162652AT	117-112
		IDT54FCT162652CT	117-113
		IDT54FCT162652T	117-114
54FCT162823	IDT	IDT54FCT162823AT	118-57
		IDT54FCT162823BT	118-58
		IDT54FCT162823CT	118-59
54FCT162827	IDT	IDT54FCT162827AT	118-75
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		IDT54FCT162827CT	118-77
54FCT162841	IDT	IDT54FCT162841AT	143-152
		IDT54FCT162841BT	143-153
		IDT54FCT162841CT	143-154
54FCT162952	IDT	IDT54FCT162952AT	117-115
		IDT54FCT162952BT	117-116
		IDT54FCT162952CT	117-117
		IDT54FCT162952DT	117-118
54FCT163	IDT	IDT54FCT163	119-49
		IDT54FCT163A	119-50
		IDT54FCT163AT	120-22
		IDT54FCT163C	119-51
		IDT54FCT163CT	120-23
		IDT54FCT163T	120-24
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		P54FCT163CT	119-58
		P54FCT163T	119-59
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		QS54FCT163C	119-65
54FCT163244	IDT	IDT54FCT163244	108-123
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54FCT163245	IDT	IDT54FCT163245	117-73
54FCT163373	IDT	IDT54FCT163373	143-14
		IDT54FCT163373A	143-14
54FCT163374	IDT	IDT54FCT163374	117-10
		IDT54FCT163374A	117-10
54FCT163501	IDT	IDT54FCT163501	118-69
		IDT54FCT163501A	118-70
54FCT163646	IDT	IDT54FCT163646	117-86
		IDT54FCT163646A	117-87
54FCT16373	IDT	IDT54FCT16373AT	143-12
		IDT54FCT16373CT	143-12
		IDT54FCT16373T	143-12
54FCT16374	IDT	IDT54FCT16374AT	117-64
		IDT54FCT16374CT	117-65
		IDT54FCT16374T	117-66
54FCT164245	IDT	IDT54FCT164245T	151-88
54FCT16500	IDT	IDT54FCT16500AT	118-35
		IDT54FCT16500CT	118-36
54FCT16501	IDT	IDT54FCT16501AT	118-44
		IDT54FCT16501CT	118-45
54FCT16543	IDT	IDT54FCT16543AT	118-14
		IDT54FCT16543CT	118-15
		IDT54FCT16543DT	118-16
		IDT54FCT16543T	118-17
54FCT16646	IDT	IDT54FCT16646AT	117-11
		IDT54FCT16646CT	117-12
		IDT54FCT16646T	117-12
54FCT16652	IDT	IDT54FCT16652AT	117-12
		IDT54FCT16652CT	117-12
		IDT54FCT16652T	117-12
54FCT16823	IDT	IDT54FCT16823AT	118-60
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		IDT54FCT16823CT	118-62
54FCT16827	IDT	IDT54FCT16827AT	118-78
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FCT16841	IDT	IDT54FCT16841AT	143-155
		IDT54FCT16841BT	143-156
		IDT54FCT16841CT	143-157
FCT16952	IDT	IDT54FCT16952AT	117-125
		IDT54FCT16952BT	117-126
		IDT54FCT16952CT	117-127
		IDT54FCT16952DT	117-128
FCT182	IDT	IDT54FCT182	103-37
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FCT191	IDT	IDT54FCT191	119-136
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		IDT54FCT191AT	120-38
		IDT54FCT191T	120-39
	Performance	P54FCT191AT	121-165
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		QS54FCT191A	121-172
		QS54FCT191C	121-173
4FCT193	IDT	IDT54FCT193	120-5
		IDT54FCT193A	120-6
		IDT54FCT193AT	120-42
		IDT54FCT193T	120-43
	Performance	P54FCT193AT	121-154
		P54FCT193CT	121-155
		P54FCT193T	121-156
	Quality Semi	QS54FCT193	121-157
		QS54FCT193A	121-158
4FCT2151	Quality Semi	QS54FCT2151	147-31
		QS54FCT2151A	147-32
54FCT2153	Quality Semi	QS54FCT2153	146-170
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54FCT2157	Quality Semi	QS54FCT2157	145-73
		QS54FCT2157A	145-74
54FCT2158	Quality Semi	QS54FCT2158	146-49
		QS54FCT2158A	146-50
54FCT2161	Quality Semi	QS54FCT2161	118-146
		QS54FCT2161A	118-147
54FCT2163	Quality Semi	QS54FCT2163	119-66
		QS54FCT2163A	119-67
54FCT2191	Quality Semi	QS54FCT2191	121-174
		QS54FCT2191A	121-175
54FCT2193	Quality Semi	QS54FCT2193	121-159
		QS54FCT2193A	121-160
54FCT2240	Quality Semi	QS54FCT2240	107-115
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		QS54FCT2240C	107-117
54FCT2241	Quality Semi	QS54FCT2241	107-144
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54FCT2244	Quality Semi	QS54FCT2244	107-147
		QS54FCT2244A	107-148
		QS54FCT2244C	107-149
54FCT2245	National	54FCT2245AT	114-83
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	Quality Semi	QS54FCT2245	114-115
		QS54FCT2245A	114-116
		QS54FCT2245C	114-117
54FCT2251	Quality Semi	QS54FCT2251	147-98
		QS54FCT2251A	147-99
54FCT2253	Quality Semi	QS54FCT2253	146-176
		QS54FCT2253A	146-177
54FCT2257	Quality Semi	QS54FCT2257	146-110
		QS54FCT2257A	146-111
54FCT2258	Quality Semi	QS54FCT2258	146-124
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54FCT2273	Quality Semi	QS54FCT2273	131-19
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54FCT2299	Quality Semi	QS54FCT2299	150-116
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54FCT2373	Quality Semi	QS54FCT2373	141-101
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54FCT2374	Quality Semi	QS54FCT2374	132-179
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54FCT2377	Quality Semi	QS54FCT2377	131-141
		QS54FCT2377A	131-142
		QS54FCT2377C	131-143
54FCT238	Quality Semi	QS54FCT238	125-197
		QS54FCT238A	125-198
		QS54FCT238B	125-199
		QS54FCT238C	125-200
		QS54FCT238D	125-201
54FCT239	Quality Semi	QS54FCT239	125-8
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		QS54FCT239B	125-10
		QS54FCT239C	125-11
		QS54FCT239D	125-12
54FCT240	Harris	CD54FCT240	110-89
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	Performance	P54FCT240	107-172
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		P54FCT240AT	107-174
		P54FCT240CT	107-175
		P54FCT240T	107-176
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		QS54FCT240C	107-120
54FCT241	Harris	CD54FCT241	110-60
	IDT	IDT54FCT241	111-7
		IDT54FCT241A	111-8
		IDT54FCT241AT	106-176
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54FCT244	Harris	CD54FCT244	110-61
	IDT	IDT54FCT244	111-10
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		IDT54FCT244AT	111-12
		IDT54FCT244C	111-13
		IDT54FCT244CT	111-14
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		P54FCT244CT	107-141
		P54FCT244T	107-142
	Quality Semi	QS54FCT244	107-152
		QS54FCT244A	107-153
		QS54FCT244C	107-154
54FCT245	Harris	CD54FCT245	113-185
	IDT	IDT54FCT245	114-63
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	Lansdale	SL54LS242	178-193
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	Motorola	SN54LS242	178-195
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	Lansdale	SL54LS243	179-75
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	Motorola	SN54LS243	179-83
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	National	DM54LS243	179-89
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54LS244			
	GoldStar	GD54LS244	177-59
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	Lansdale	SL54LS244	177-63
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	Motorola	SN54LS244	177-67
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	National	54LS244	177-73
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	GoldStar	GD54LS245	626-13
	Lansdale	SL54LS245	179-76
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	Motorola	SN54LS245	179-84
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	National	DM54LS245	179-90
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54LS247			
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	National	54LS247	609-66
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	Motorola	SN54LS248	609-119
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	Motorola	SN54LS249	609-41
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	GoldStar	GD54LS251	205-100
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	Motorola	SN54LS251	205-104
	National	DM54LS251	205-106
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54LS253			
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	Lansdale	SL54LS258A	204-38
	Motorola	SN54LS258A	204-40
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54LS259			
	GoldStar	GD54LS259	201-70
	Lansdale	SL54LS259	201-72
	Motorola	SN54LS259	201-74
	National	DM54LS259	201-76
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54LS26	GoldStar	GD54LS26	197-72
	Lansdale	SL54LS26	197-74
	Motorola	SN54LS26	197-76
	National	DM54LS26	197-78
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54LS260			
	Lansdale	SL54LS260	199-77
	Motorola	SN54LS260	199-78
	National	54LS260	199-80
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	Motorola	SN54LS266	200-116
	National	54LS266	200-118
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54LS273			
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	National	54LS273	192-92
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	Lansdale	SL54LS283	173-87
	Motorola	SN54LS283	173-91
	National	DM54LS283	173-95
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54LS293			
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54LS295			
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54LS298			
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54LS299			
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54LS30	GoldStar	GD54LS30	197-190
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	Motorola	SN54LS30	197-194
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54LS32	GoldStar	GD54LS32	199-30
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54LS321			
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54LS322			
	GoldStar	GD54LS322	173-122
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54LS356			
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	Motorola	SN54LS365A	174-124
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	Motorola	SN54LS366A	175-197
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	Lansdale	SL54LS373	201-12
	Motorola	SN54LS373	201-13
	National	DM54LS373	201-13
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54LS48	Motorola	SN54LS48	609-121
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	Lansdale	SL54LS51	198-66
	Motorola	SN54LS51	198-68
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54LS595	TI	SN54LS595	207-135
54LS597	TI	SN54LS597	207-119
54LS598	TI	SN54LS598	207-120
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54LS610	Rochester	54LS610	208-81
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	TI	SN54LS642	178-55 625-59
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54LS646	GoldStar	GD54LS646	177-174
54LS653	Rochester	54LS653	178-31
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54LS669	Motorola	SN54LS669	181-74
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54LS670	GoldStar	GD54LS670	202-84 1119-1
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54LS674	TI	SN54LS674	208-6
54LS68	Rochester	54LS68	182-137
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54LS682	Motorola	SN54LS682	172-91
	TI	SN54LS682	172-103
54LS684	Motorola	SN54LS684	172-92
	TI	SN54LS684	172-104
54LS685	TI	SN54LS685	172-90
54LS688	GoldStar	GD54LS688	172-98
	Motorola	SN54LS688	172-93
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54LS693	TI	SN54LS693	180-40
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54LS697	TI	SN54LS697	181-34
54LS699	TI	SN54LS699	181-35
54LS73	GoldStar	GD54LS73A	193-124
	Lansdale	SL54LS73	193-128
	Motorola	SN54LS73A	190-157
	National	DM54LS73A	193-135
	TI	SN54LS73A	193-139
54LS74	GoldStar	GD54LS74A	191-29
	Lansdale	SL54LS74A	191-31
	Motorola	SN54LS74A	191-33
	National	DM54LS74	191-35
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54LS76	Lansdale	SL54LS76	193-152
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	Motorola	SN54LS86	200-79
	National	DM54LS86	200-82
	TI	SN54LS86A	200-90
54LS90	GoldStar	GD54LS90	182-35
	Lansdale	SL54LS90	182-37
	Motorola	SN54LS90	182-40
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54LS91	TI	SN54LS91	207-143
54LS92	GoldStar	GD54LS92	183-36
	Lansdale	SL54LS92	183-38
	Motorola	SN54LS92	183-40
	TI	SN54LS92	183-43
54LS93	GoldStar	GD54LS93	180-165
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	Motorola	SN54LS93	180-170
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54LS95	GoldStar	GD54LS95B	206-115
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		CY7B196-12M	1189-51
		CY7B196-15C	1190-19
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7B197	Cypress	CY7B197-10C	1209-2
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7B199	Cypress	CY7B199-10C	1170-14
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		CY7B199-12M	1170-29
		CY7B199-15C	1170-45
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		CY7B199-20M	1171-19
7B201	Cypress	CY7B201-25C	963-65
		CY7B201-30	940-32
		CY7B201-30C	964-1
		CY7B201-30M	964-2
		CY7B201-35C	961-28
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7B210	Cypress	CY7B210-25C	959-35
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7B211	Cypress	CY7B211-18C	957-49
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7B326	Cypress	CY7B326-12C	1516-38
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7B333	Cypress	CY7B333-10C	1516-28
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7B336	Cypress	CY7B336-10M	1513-18
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7B337	Cypress	CY7B337-10M	1516-33
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		CY7B337-8M	1513-15
		CY7B337-9C	1516-18
7B338	Cypress	CY7B338-10M	1513-19
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		CY7B338-6C	1513-2
		CY7B338-7M	1513-3
		CY7B338-8C	1513-14
7B339	Cypress	CY7B339-10M	1513-20
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7B921	Cypress	CY7B921C	839-24
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7B922	Cypress	CY7B922C	839-27
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7B931	Cypress	CY7B931C	839-33
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7B932	Cypress	CY7B932C	839-36
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7B933	Cypress	CY7B933C	839-39
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7B991	Cypress	CY7B991	424-16
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7B992	Cypress	CY7B992	424-12
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7C1002	Cypress	CY7C1002-15C	1212-58
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7C107	AT&T	ATT7C107-15	1221-1
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7C108	AT&T	ATT7C108-15	1198-53
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7C123	Cypress	CY7C123-10M	1123-6
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		CY7C131-45I	1281-2
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		CY7C131-55C	1281-18
		CY7C131-55I	1281-19
		CY7C131-55M	1281-24
7C132	Cypress	CY7C132-25C	1280-7
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		CY7C132-30I	1285-9
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7C140	Cypress	CY7C140-25C	1280-8
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7C141	Cypress	CY7C141-25C	1280-9
		CY7C141-30C	1280-29
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7C142	Cypress	CY7C142-25C	1284-46
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		CY7C142-35C	1285-39
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7C146	Cypress	CY7C146-25C	1284-47
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7C147	Cypress	CY7C147-25C	1138-40
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7C148	Cypress	CY7C148-25C	1126-55
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7C149	Cypress	CY7C149-25C	1126-54
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7C150	Cypress	CY7C150-10C	1295-20
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7C161	Cypress	CY7C161-10C	1153-8
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	LogicDev	L7C170-15	1134-21
		L7C170-20	1134-43
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		L7C170-35	1135-48
7C171	Cypress	CY7C171-25C	1135-25
		CY7C171-35C	1136-2
		CY7C171-35M	1136-3
		CY7C171-45C	1136-37
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7C171	Cypress		(Cont'd)
		CY7C171-45M	1136-38
		CY7C171A-15C	1141-12
		CY7C171A-20C	1141-30
		CY7C171A-20M	1141-31
		CY7C171A-25C	1141-49
		CY7C171A-25M	1141-50
		CY7C171A-35C	1142-1
		CY7C171A-35M	1142-2
		CY7C171A-45M	1142-11
	LogicDev	L7C171-15	1134-22
		L7C171-20	1134-44
		L7C171-25	1135-11
		L7C171-35	1135-49
7C172	Cypress	CY7C172-25C	1135-26
		CY7C172-35C	1136-4
		CY7C172-35M	1136-5
		CY7C172-45C	1136-39
		CY7C172-45M	1136-40
		CY7C172A-15C	1141-13
		CY7C172A-20C	1141-32
		CY7C172A-20M	1141-33
		CY7C172A-25C	1141-51
		CY7C172A-25M	1141-52
		CY7C172A-35C	1142-3
		CY7C172A-35M	1142-4
		CY7C172A-45M	1142-12
	LogicDev	L7C172-15	1134-23
		L7C172-20	1134-45
		L7C172-25	1135-12
		L7C172-35	1135-50
		L7C172-45	1136-26
7C173	AT&T	ATT7C173-10	1297-37
		ATT7C173-12	1297-38
		ATT7C173-15	1297-44
		ATT7C173-20	1297-48
		ATT7C173-25	1298-3
		ATT7C173L-12	1297-39
		ATT7C173L-15	1297-45
		ATT7C173L-20	1297-49
		ATT7C173L-25	1298-4
7C174	AT&T	ATT7C174-12	1297-40
		ATT7C174-15	1297-42
		ATT7C174-20	1297-50
		ATT7C174-25	1298-5
		ATT7C174L-12	1297-41
		ATT7C174L-15	1297-43
		ATT7C174L-20	1297-51
		ATT7C174L-25	1298-6
	LogicDev	L7C174-12	1296-56
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		L7C174-20	1297-7
		L7C174-25	1297-9
		L7C174-35	1297-13
7C180	AT&T	ATT7C180-10	1295-37
		ATT7C180-12	1295-40
		ATT7C180-15	1295-47
		ATT7C180-20	1295-54
		ATT7C180-25	1296-8
	LogicDev	L7C180-12	1295-45
		L7C180-15	1295-51
		L7C180-20	1296-3
		L7C180-25	1296-16
7C181	AT&T	ATT7C181-10	1295-38
		ATT7C181-12	1295-41
		ATT7C181-15	1295-48
		ATT7C181-20	1295-55
		ATT7C181-25	1296-9
	LogicDev	L7C181-12	1295-46
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		L7C181-20	1296-4
		L7C181-25	1296-17
7C182	Cypress	CY7C182-20C	1150-34
		CY7C182-25C	1150-43
		CY7C182-35C	1150-54
		CY7C182-45C	1151-3
7C183	AT&T	ATT7C183-25	1295-14
		ATT7C183-35	1295-16
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7C183	AT&T		(Cont'd)
		ATT7C183-45	1295-18
	Cypress	CY7C183-20C	1298-9
		CY7C183-25C	1296-28
		CY7C183-35C	1296-30
		CY7C183-35M	1296-31
		CY7C183-45C	1296-34
		CY7C183-45M	1296-35
7C184	AT&T	ATT7C184-25	1295-15
		ATT7C184-35	1295-17
		ATT7C184-45	1295-19
	Cypress	CY7C184-20C	1297-17
		CY7C184-25C	1296-29
		CY7C184-35C	1296-32
		CY7C184-35M	1296-33
		CY7C184-45C	1296-36
		CY7C184-45M	1296-37
7C185	AT&T	ATT7C185-10	1142-22
		ATT7C185-12	1142-28
		ATT7C185-15	1142-38
		ATT7C185-20	1142-45
	Cypress	CY7C185-12C	1147-54
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		CY7C185A-25M	1148-37
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		CY7C185A-45M	1149-13
	LogicDev	L7C185-20	1142-47
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7C186	Cypress	CY7C186-10C	1142-23
		CY7C186-12C	1142-29
		CY7C186-15C	1142-40
		CY7C186-20C	1148-20
		CY7C186-25C	1148-36
		CY7C186-35C	1148-60
		CY7C186-45C	1149-12
		CY7C186-55C	1149-16
		CY7C186A-12M	1142-30
		CY7C186A-15M	1142-42
		CY7C186A-20C	1142-46
		CY7C186A-20M	1142-51
		CY7C186A-25C	1143-6
		CY7C186A-25M	1143-10
		CY7C186A-35C	1143-30
		CY7C186A-35M	1143-46
		CY7C186A-45C	1143-60
		CY7C186A-45M	1144-15
		CY7C186A-55C	1144-23
		CY7C186A-55M	1144-38
7C187	AT&T	ATT7C187-10	1179-11
		ATT7C187-12	1179-16
		ATT7C187-15	1179-24
		ATT7C187-20	1179-35
		ATT7C187-25	1299-5
	Cypress	CY7C187-12C	1187-1
		CY7C187-15C	1187-8
		CY7C187-20C	1187-17
		CY7C187-25C	1187-23
		CY7C187-35C	1187-28
		CY7C187A-12M	1179-17
		CY7C187A-15M	1187-9
		CY7C187A-20M	1187-18
		CY7C187A-25M	1187-25
		CY7C187A-35M	1187-30
		CY7C187A-45C	1180-20
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7C187	Cypress		(Cont'd
		CY7C187A-45M	1180-32
	LogicDev	L7C187-15	1179-25
		L7C187-20	1179-36
		L7C187-25	1179-46
		L7C187-35	1180-6
7C189	Cypress	CY7C189-15C	1119-61
		CY7C189-25C	1120-1
		CY7C189-25M	1120-2
7C190	Cypress	CY7C190-15C	1119-62
		CY7C190-25C	1120-3
		CY7C190-25M	1120-4
7C191	Cypress	CY7C191-12C	1190-12
		CY7C191-15C	1191-4
		CY7C191-15M	1191-5
		CY7C191-20C	1192-6
		CY7C191-20M	1192-7
		CY7C191-25C	1192-61
		CY7C191-25M	1192-62
		CY7C191-35C	1193-51
		CY7C191-35M	1193-52
		CY7C191-45M	1194-8
7C192	AT&T	ATT7C192-12	1181-6
		ATT7C192-15	1181-40
		ATT7C192-20	1182-24
		ATT7C192-25	1182-62
	Cypress	CY7C192-12C	1190-13
		CY7C192-15C	1191-6
		CY7C192-15M	1191-7
		CY7C192-20C	1192-8
		CY7C192-20M	1192-9
		CY7C192-25C	1193-1
		CY7C192-25M	1193-2
		CY7C192-35C	1193-53
		CY7C192-35M	1193-54
		CY7C192-45M	1194-9
7C194	AT&T	ATT7C194-12	1181-3
		ATT7C194-15	1299-6
		ATT7C194-20	1182-21
		ATT7C194-25	1182-59
	Cypress	CY7C194-12C	1190-1
		CY7C194-15C	1190-46
		CY7C194-15M	1190-47
		CY7C194-20C	1191-43
		CY7C194-20M	1191-44
		CY7C194-25C	1192-45
		CY7C194-25M	1192-46
		CY7C194-35C	1193-41
		CY7C194-35M	1193-42
		CY7C194-45M	1193-59
7C195	AT&T	ATT7C195-12	1181-4
		ATT7C195-15	1181-38
		ATT7C195-20	1182-22
		ATT7C195-25	1182-60
	Cypress	CY7C195-12C	1190-2
		CY7C195-15C	1190-48
		CY7C195-15M	1190-49
		CY7C195-20C	1191-45
		CY7C195-20M	1191-46
		CY7C195-25C	1192-47
		CY7C195-25M	1192-48
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		CY7C195-45M	1193-60
	LogicDev	L7C195-12	1181-11
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		L7C195-25	1183-23
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7C196	AT&T	ATT7C196-12	1181-5
		ATT7C196-15	1181-39
		ATT7C196-20	1182-23
		ATT7C196-25	1182-61
	Cypress	CY7C196-12C	1190-3
		CY7C196-15C	1190-50
		CY7C196-15M	1190-51
		CY7C196-20C	1191-47
		CY7C196-20M	1191-54
		CY7C196-25C	1192-49
		CY7C196-25M	1192-50
		CY7C196-35C	1193-45
		CY7C196-35M	1193-46
		CY7C196-45M	1193-61
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		ATT7C197-15	1206-17
		ATT7C197-20	1206-30
		ATT7C197-25	1206-40
	Cypress	CY7C197-12C	1209-10
		CY7C197-15C	1209-33
		CY7C197-15M	1209-37
		CY7C197-20C	1210-5
		CY7C197-20M	1209-59
		CY7C197-25C	1210-26
		CY7C197-25M	1210-29
		CY7C197-35C	1210-51
		CY7C197-35M	1210-52
		CY7C197-45M	1210-55
C198	Cypress	CY7C198-12C	1163-59
		CY7C198-15C	1164-6
		CY7C198-15M	1164-7
		CY7C198-20C	1164-22
		CY7C198-20M	1164-23
		CY7C198-25C	1172-44
		CY7C198-35C	1173-44
		CY7C198-35M	1173-45
		CY7C198-45C	1174-9
		CY7C198-45M	1174-10
		CY7C198-55C	1174-29
		CY7C198-55M	1174-30
C199	AT&T	ATT7C199-12	1170-34
		ATT7C199-15	1170-51
		ATT7C199-20	1171-25
		ATT7C199-25	1172-18
		ATT7C199L-12	1170-35
		ATT7C199L-15	1170-52
		ATT7C199L-20	1171-26
		ATT7C199L-25	1172-19
	Cypress	CY7C199-12C	1170-39
		CY7C199-15C	1171-2
		CY7C199-15M	1171-3
		CY7C199-20C	1171-45
		CY7C199-20M	1171-46
		CY7C199-25C	1172-42
		CY7C199-25M	1172-43
		CY7C199-35C	1173-38
		CY7C199-35M	1173-39
		CY7C199-45M	1174-8
	LogicDev	L7C199-12	1164-1
		L7C199-15	1164-12
		L7C199-20	1164-27
		L7C199-25	1164-45
		L7C199-35	1165-19
C200	Data Delay	DDU7C200	127-103
C225	Cypress	CY7C225-25C	931-32
		CY7C225-30C	931-33
		CY7C225-30M	931-34
		CY7C225-35M	931-35
		CY7C225-40C	931-36
		CY7C225-40M	931-37
C235	Cypress	CY7C235-25C	933-39
		CY7C235-30C	933-40
		CY7C235-30M	933-43
		CY7C235-40C	933-44
		CY7C235-40M	933-45
C245	Cypress	CY7C245-25C	935-23
		CY7C245-35C	935-29
		CY7C245-35M	935-34
		CY7C245-45C	935-42
		CY7C245-45M	935-43
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		CY7C245AL-35WC	942-31
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7C245	Cypress		(Cont'd)
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7C250	Data Delay	DDU7C250	127-105
7C251	Cypress	CY7C251-45C	938-30
		CY7C251-45M	950-33
		CY7C251-55C	938-32
		CY7C251-55M	938-34
		CY7C251-65C	938-36
		CY7C251-65M	938-38
7C254	Cypress	CY7C254-45C	938-31
		CY7C254-45M	950-34
		CY7C254-55C	938-33
		CY7C254-55M	938-35
		CY7C254-65C	938-37
		CY7C254-65M	938-39
7C258	Cypress	CY7C258-12C	943-1
		CY7C258-15C	943-3
		CY7C258-15M	943-6
7C259	Cypress	CY7C259-12C	943-2
		CY7C259-15C	943-4
		CY7C259-15M	943-5
7C261	Cypress	CY7C261-20C	937-31
		CY7C261-25C	937-37
		CY7C261-25M	947-19
		CY7C261-35C	937-40
		CY7C261-35M	937-43
		CY7C261-45C	937-51
		CY7C261-45M	937-54
		CY7C261-55C	938-1
		CY7C261-55M	938-4
7C263	Cypress	CY7C263-20C	937-32
		CY7C263-25C	937-38
		CY7C263-25M	947-20
		CY7C263-35C	937-41
		CY7C263-35M	937-44
		CY7C263-45C	937-52
		CY7C263-45M	937-55
		CY7C263-55C	938-2
		CY7C263-55M	938-5
7C264	Cypress	CY7C264-20C	937-33
		CY7C264-25C	937-39
		CY7C264-25M	947-21
		CY7C264-35C	937-42
		CY7C264-35M	937-45
		CY7C264-45C	937-53
		CY7C264-45M	937-56
		CY7C264-55C	938-3
		CY7C264-55M	938-6
7C265	Cypress	CY7C265-15C	947-14
		CY7C265-25C	947-16
		CY7C265-25M	947-18
		CY7C265-40C	937-46
		CY7C265-50C	937-57
		CY7C265-50M	937-60
7C266	Cypress	CY7C266-20C	937-30
		CY7C266-25C	937-35
		CY7C266-25M	937-36
		CY7C266-35C	947-27
		CY7C266-45C	937-49
		CY7C266-45M	937-50
7C268	Cypress	CY7C268-40C	937-47
		CY7C268-50C	937-58
		CY7C268-50M	937-61
		CY7C268-60C	937-10
		CY7C268-60M	938-9
7C269	Cypress	CY7C269-15C	937-29
		CY7C269-25C	947-17
		CY7C269-25M	937-34
		CY7C269-40C	937-48
		CY7C269-50C	937-59
		CY7C269-50M	937-62
7C270	Cypress	CY7C270-20C	950-9
		CY7C270-30C	950-11
7C271	Cypress	CY7C271-30C	954-23
		CY7C271-35C	938-57
		CY7C271-35M	954-26
		CY7C271-45C	939-1
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		CY7C271-45M	939-3
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7C272	Cypress	CY7C272-25C	949-56
		CY7C272-30C	949-59
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7C272	Cypress		(Cont'd)
		CY7C272-30M	949-61
7C273	Cypress	CY7C273-40C	949-63
		CY7C273-45C	950-1
		CY7C273-45M	950-2
7C274	Cypress	CY7C274-30C	954-24
		CY7C274-35C	954-25
		CY7C274-35M	954-27
		CY7C274-45C	939-2
		CY7C274-45M	954-33
		CY7C274-55C	939-10
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7C275	Cypress	CY7C275-20C	949-55
		CY7C275-25C	949-57
		CY7C275-25M	949-58
		CY7C275-30C	949-60
		CY7C275-30M	949-62
7C276	Cypress	CY7C276-25C	950-10
		CY7C276-30C	950-12
		CY7C276-30M	950-13
		CY7C276-35C	950-14
		CY7C276-35M	950-15
7C277	Cypress	CY7C277-30C	938-56
		CY7C277-40C	938-59
		CY7C277-40M	938-60
		CY7C277-50C	939-7
		CY7C277-50M	939-8
7C279	Cypress	CY7C279-35C	938-58
		CY7C279-45C	939-5
		CY7C279-45M	939-6
		CY7C279-55C	939-13
		CY7C279-55M	939-14
7C281	Cypress	CY7C281-30C	933-41
		CY7C281-45C	933-46
		CY7C281-45M	933-48
7C282	Cypress	CY7C282-30C	933-42
		CY7C282-45C	933-47
		CY7C282-45M	933-49
7C285	Cypress	CY7C285-65C	940-1
		CY7C285-75C	940-5
		CY7C285-75M	940-7
		CY7C285-85C	940-9
		CY7C285-85M	940-11
7C286	Cypress	CY7C286-50C	939-60
		CY7C286-60C	939-61
		CY7C286-60M	939-62
		CY7C286-70C	940-3
		CY7C286-70M	940-4
		CY7C286-80M	960-34
7C287	Cypress	CY7C287-45C	960-27
		CY7C287-55C	960-28
		CY7C287-55M	960-29
		CY7C287-65C	960-30
		CY7C287-65M	960-31
7C289	Cypress	CY7C289-65C	940-2
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			¶ 3385-25
		CY7C289-75C	940-6
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			¶ 3385-25
		CY7C289-75M	940-8
			¶ 3385-24
			¶ 3385-25
		CY7C289-85C	940-10
			¶ 3385-24
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		CY7C289-85M	940-12
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7C291	Cypress	CY7C291-35C	935-32
		CY7C291-35M	935-36
		CY7C291-50C	935-47
		CY7C291-50M	935-49
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		CY7C291A-50M	943-50
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7C291	Cypress		(Cont'd)
		CY7C291AL-50C	935-44
		CY7C291L-35C	935-27
		CY7C291L-50C	935-45
7C292	Cypress	CY7C292-35C	935-33
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7C293	Cypress	CY7C293A-20C	943-9
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		CY7C293A-50M	943-52
		CY7C293AL-35C	935-38
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7C300	Data Delay	DDU7C300	127-107
7C325	Cypress	CY7C325	429-68
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7C330	Cypress	CY7C330-28M	1518-11
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7C331	Cypress	CY7C331-20C	1515-10
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		CY7C335-66I	1505-10
		CY7C335-66M	1505-11
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7C340	AT&T	ATT7C340	1194-35
7C341	AT&T	ATT7C341	1205-15
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7C343	AT&T	ATT7C343-20	1186-49
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		CY7C401-25C	903-77
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7C402	Cypress		(Cont'd)
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7C403	Cypress	CY7C403-10C	903-57
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		CY7C403-15C	903-71
		CY7C403-15M	903-72
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7C404	Cypress	CY7C404-10C	903-97
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7C408	Cypress	CY7C408A-15C	904-31
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		CY7C408A-25C	904-34
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7C409	Cypress	CY7C409A-15C	904-41
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7C420	Cypress	CY7C420-20C	906-98
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		CY7C420-25M	906-76
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		CY7C420-30I	906-62
		CY7C420-30M	906-63
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		CY7C424-65I	908-31
		CY7C424-65M	908-32
7C425	Cypress	CY7C425-20C	909-37
		CY7C425-25C	909-9
		CY7C425-25I	909-10
		CY7C425-25M	909-11
		CY7C425-30C	908-101
		CY7C425-30I	908-102
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		CY7C425-40C	908-68
		CY7C425-40I	908-69
		CY7C425-40M	908-70
		CY7C425-65C	908-33
		CY7C425-65I	908-34
		CY7C425-65M	908-35
7C428	Cypress	CY7C428-20C	911-66
		CY7C428-25C	911-35
		CY7C428-25I	911-36
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7C428	Cypress		(Cont'd)
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		CY7C428-40I	910-88
		CY7C428-40M	910-89
		CY7C428-65C	910-48
		CY7C428-65I	910-49
		CY7C428-65M	910-50
7C429	Cypress	CY7C429-20C	911-67
		CY7C429-25C	911-38
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		CY7C429-25M	911-40
		CY7C429-30C	911-12
		CY7C429-30I	911-13
		CY7C429-30M	911-14
		CY7C429-40C	910-90
		CY7C429-40I	910-91
		CY7C429-40M	910-92
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7C432	Cypress	CY7C432-25C	913-46
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		CY7C432-40C	912-99
		CY7C432-40I	912-100
		CY7C432-40M	912-101
		CY7C432-65C	912-68
		CY7C432-65I	912-69
		CY7C432-65M	912-70
7C433	Cypress	CY7C433-25C	913-47
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		CY7C439-30M	911-16
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		CY7C439-40M	910-94
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		CY7C439-65C	910-54
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7C441	Cypress	CY7C441-14C	907-33
		CY7C441-14I	907-34
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		CY7C441-20M	907-19
		CY7C441-30C	906-100
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		CY7C441-30M	906-102
7C443	Cypress	CY7C443-14C	911-112
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		CY7C443-14M	912-1
		CY7C443-20C	911-94
		CY7C443-20I	911-95
		CY7C443-20M	911-96
		CY7C443-30C	911-68
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		CY7C443-30M	911-70
7C446	Cypress	CY7C446-14C	909-110
		CY7C446-20C	909-101
		CY7C446-20M	909-102
		CY7C446-30C	909-92
		CY7C446-30M	909-93
7C447	Cypress	CY7C447-14C	912-32
		CY7C447-20C	912-26
		CY7C447-20M	912-27
		CY7C447-30C	912-20
		CY7C447-30M	912-21
7C448	Cypress	CY7C448-14C	912-6
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		CY7C448-20M	912-8
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7C448	Cypress		(Cont'd)
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7C451	Cypress	CY7C451-14C	907-36
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		CY7C451-14M	907-38
		CY7C451-20C	907-20
		CY7C451-20I	907-21
		CY7C451-20M	907-22
		CY7C451-30C	906-103
		CY7C451-30I	906-104
		CY7C451-30M	906-105
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		CY7C453-30I	911-72
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7C456	Cypress	CY7C456-14C	909-111
		CY7C456-20C	909-103
		CY7C456-20M	909-104
		CY7C456-30C	909-94
		CY7C456-30M	909-95
7C457	Cypress	CY7C457-14C	912-33
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		CY7C457-30C	912-22
		CY7C457-30M	912-23
7C458	Cypress	CY7C458-14C	912-11
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7C460	Cypress	CY7C460-15C	914-49
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7C462	Cypress	CY7C462-15C	914-89
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		CY7C462-40M	914-78
7C464	Cypress	CY7C464-15C	915-22
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		CY7C464-20M	915-24
		CY7C464-25C	915-15
		CY7C464-25I	915-16
		CY7C464-25M	915-17
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		CY7C464-40I	915-4
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7C470	Cypress	CY7C470-15C	914-52
		CY7C470-15I	914-53
		CY7C470-20M	914-54
		CY7C470-25C	914-41
		CY7C470-25M	914-42
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7C472	Cypress	CY7C472-15C	914-92
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C516	Cypress	CY7C516-38C	103-146
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C601	Cypress	CY7C601-25C	339-20
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C602	Cypress	CY7C602A	102-104
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C604	Cypress	CY7C604A	413-58
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C605	Cypress	CY7C605A	413-62
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C611	Cypress	CY7C611A-25C	341-12
C613	Cypress	CY7C613	417-92
C614	Cypress	CY7C614	417-93
C615	Cypress	CY7C615	417-15
C616	Cypress	CY7C616	417-94
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		CY7C909-40C	398-71
		CY7C909-40M	398-72
7C910	Cypress	CY7C910-40C	410-12
		CY7C910-46C	410-13
		CY7C910-46M	410-14
		CY7C910-50C	410-15
		CY7C910-51M	410-16
		CY7C910-93C	410-17
		CY7C910-93M	410-18
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7C9101	Cypress	CY7C9101-30C	398-106
		CY7C9101-35M	398-107
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		CY7C9101-45M	398-109
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7C911	Cypress	CY7C911-30C	398-73
		CY7C911-30M	398-74
		CY7C911-40C	398-75
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7C9115	Cypress	CY7C9115-35C	410-30
		CY7C9115-45C	410-31
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7C9116	Cypress	CY7C9116-35C	410-24
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		CY7C9116-45C	410-26
		CY7C9116-65C	410-27
		CY7C9116-65M	410-28
		CY7C9116-79M	410-29
7C9117	Cypress	CY7C9117-35C	410-33
		CY7C9117-40M	410-34
		CY7C9117-45C	410-35
		CY7C9117-65C	410-36
		CY7C9117-65M	410-37
		CY7C9117-79M	410-38
7C964	Cypress	CY7C964	423-95
7F10	Data Delay	DDU7F10	188-111
		DDU7F10M	188-112
7F100	Data Delay	DDU7F100	188-116
		DDU7F100M	188-119
7F150	Data Delay	DDU7F150	188-136
		DDU7F150M	188-137
7F20	Data Delay	DDU7F20	188-150
		DDU7F20M	188-151
7F200	Data Delay	DDU7F200	188-159
		DDU7F200M	188-160
7F25	Data Delay	DDU7F25	188-154
		DDU7F25M	188-155
7F250	Data Delay	DDU7F250	189-7
		DDU7F250M	189-8
7F300	Data Delay	DDU7F300	189-17
		DDU7F300M	189-18
7F400	Data Delay	DDU7F400	189-34
		DDU7F400M	189-35
7F50	Data Delay	DDU7F50	189-49
		DDU7F50M	189-50
7F500	Data Delay	DDU7F500	189-55
		DDU7F500M	189-56
7H003	OKI	7H003	1444-45
7H005	OKI	7H005	1444-46
7H007	OKI	7H007	1444-50
7H010	OKI	7H010	1444-54
7MB1006	IDT	IDT7MB1006-25	1237-35
		IDT7MB1006-30	1237-38
		IDT7MB1006-35	1237-47
		IDT7MB1006-40	1237-52
		IDT7MB1006-50	1237-64
		IDT7MB1006-65	1238-9
			(Continued)

Base Number	Source	Device	Page-Line
7MB1006	IDT		(Cont'd)
		IDT7MB1006-80	1238-19
7MB1008	IDT	IDT7MB1008-25	1232-29
		IDT7MB1008-30	1232-30
		IDT7MB1008-35	1232-34
		IDT7MB1008-40	1232-38
		IDT7MB1008-50	1232-45
		IDT7MB1008-65	1232-52
		IDT7MB1008-80	1232-59
7MB4048	IDT	IDT7MB4048-100	1268-12
		IDT7MB4048-120	1268-48
		IDT7MB4048-15	1269-36
		IDT7MB4048-17	1270-11
		IDT7MB4048-20	1270-15
		IDT7MB4048-25	1270-19
		IDT7MB4048-30	1270-20
		IDT7MB4048-35	1270-21
		IDT7MB4048-45	1266-23
		IDT7MB4048-55	1266-42
		IDT7MB4048-60	1267-1
		IDT7MB4048-65	1267-3
		IDT7MB4048-70	1267-7
		IDT7MB4048-85	1267-29
7MB4065	IDT	IDT7MB4065-10	1253-23
		IDT7MB4065-12	1253-24
		IDT7MB4065-15	1253-25
		IDT7MB4065-17	1253-26
		IDT7MB4065-20	1253-27
		IDT7MB4065-25	1253-28
		IDT7MB4065-30	1253-29
		IDT7MB4065-35	1253-30
		IDT7MB4065-45	1253-31
7MB4066	IDT	IDT7MB4066-10	1251-12
		IDT7MB4066-12	1251-14
		IDT7MB4066-15	1251-15
		IDT7MB4066-17	1251-16
		IDT7MB4066-20	1251-21
		IDT7MB4066-25	1251-28
		IDT7MB4066-30	1251-37
		IDT7MB4066-35	1251-49
			(Continued)

Base Number	Source	Device	Page-Line
7MB4066	IDT		(Cont'd)
		IDT7MB4066-45	1251-59
7MB4067	IDT	IDT7MB4067-20	1253-52
		IDT7MB4067-25	1254-16
		IDT7MB4067-30	1254-28
		IDT7MB4067-35	1254-48
		IDT7MB4067-45	1255-6
7MB4068	IDT	IDT7MB4068-10	1255-49
		IDT7MB4068-12	1255-52
		IDT7MB4068-15	1255-55
		IDT7MB4068-17	1256-1
		IDT7MB4068-20	1256-5
		IDT7MB4068-25	1256-14
		IDT7MB4068-30	1256-32
		IDT7MB4068-35	1256-46
		IDT7MB4068-45	1257-7
		IDT7MB4068-45B	1257-5
		IDT7MB4068-55	1257-36
		IDT7MB4068-55B	1257-34
		IDT7MB4068-60	1257-45
		IDT7MB4068-60B	1257-43
		IDT7MB4068-65	1257-48
		IDT7MB4068-70	1257-62
7MB6036	IDT	IDT7MB6036-10	1243-9
		IDT7MB6036-40	1242-36
		IDT7MB6036-50	1242-47
		IDT7MB6036-60	1242-51
		IDT7MB6036-70	1242-55
		IDT7MB6036-85	1242-61
7MB6046	IDT	IDT7MB6046-10	1238-30
		IDT7MB6046-40	1237-51
		IDT7MB6046-50	1237-63
		IDT7MB6046-60	1238-8
		IDT7MB6046-70	1238-15
		IDT7MB6046-85	1238-23
7MB6049	IDT	IDT7MB6049	¶ 3320-16
7MB6056	IDT	IDT7MB6056-10	1232-23
		IDT7MB6056-40	1232-18
		IDT7MB6056-50	1232-19
		IDT7MB6056-60	1232-20
		IDT7MB6056-70	1232-21
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* Indicates additional data is provided on the page noted.

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7MB6056	IDT		(Cont'd)
		IDT7MB6056-85	1232-22
7MB6089	IDT	IDT7MB6089-25	1299-9
		IDT7MB6089-33	1299-11
7MC4032	IDT	IDT7MC4032-30	1159-37
7MP1021	IDT	IDT7MP1021-25	1245-18
		IDT7MP1021-30	1245-22
		IDT7MP1021-35	1245-30
		IDT7MP1021-40	1245-36
		IDT7MP1021-50	1245-48
7MP1023	IDT	IDT7MP1023-25	1239-51
		IDT7MP1023-30	1239-53
		IDT7MP1023-35	1239-55
		IDT7MP1023-40	1239-58
		IDT7MP1023-50	1239-62
7MP2009	IDT	IDT7MP2009-15	915-37
		IDT7MP2009-20	915-36
		IDT7MP2009-25	915-35
		IDT7MP2009-30	915-34
		IDT7MP2009-35	915-33
		IDT7MP2009-40	915-32
		IDT7MP2009-50	915-31
		IDT7MP2009-60	915-30
		IDT7MP2009-70	915-29
7MP2010	IDT	IDT7MP2010-15	914-104
		IDT7MP2010-20	914-103
		IDT7MP2010-25	914-102
		IDT7MP2010-30	914-101
		IDT7MP2010-35	914-100
		IDT7MP2010-40	914-99
		IDT7MP2010-50	914-98
		IDT7MP2010-60	914-97
		IDT7MP2010-70	914-96
7MP4027	IDT	IDT7MP4027-10	1237-23
		IDT7MP4027-12	1237-24
		IDT7MP4027-15	1237-25
		IDT7MP4027-17	1237-26
		IDT7MP4027-20	1237-27
		IDT7MP4027-25	1237-34
		IDT7MP4027-30	1237-37
			(Continued)
7MP4027	IDT		(Cont'd)
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7MP4031	IDT	IDT7MP4031-10	1230-11
		IDT7MP4031-12	1230-12
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		IDT7MP4031-25	1230-25
		IDT7MP4031-35	1230-35
		IDT7MP4031-8	1230-10
7MP4034	IDT	IDT7MP4034-10	1255-51
		IDT7MP4034-12	1255-54
		IDT7MP4034-15	1255-58
		IDT7MP4034-17	1256-3
		IDT7MP4034-20	1256-10
		IDT7MP4034-25	1256-28
		IDT7MP4034-35	1256-59
		IDT7MP4034-45	1257-23
7MP4045	IDT	IDT7MP4045-10	1255-23
		IDT7MP4045-12	1255-28
		IDT7MP4045-15	1255-32
		IDT7MP4045-17	1255-36
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		IDT7MP4045-25	1254-17
		IDT7MP4045-30	1254-29
		IDT7MP4045-35	1254-49
		IDT7MP4045-45	1255-7
7MP4046	IDT	IDT7MP4046-100	1252-39
		IDT7MP4046-120	1252-57
		IDT7MP4046-70	1252-14
		IDT7MP4046-85	1252-20
7MP4047	IDT	IDT7MP4047-100	1263-48
		IDT7MP4047-120	1263-59
		IDT7MP4047-70	1263-32
		IDT7MP4047-85	1263-36
7MP4058	IDT	IDT7MP4058-100	1268-20
		IDT7MP4058-120	1269-4
		IDT7MP4058-70	1267-15
		IDT7MP4058-80	1267-27
		IDT7MP4058-85	1267-38
7MP4059	IDT	IDT7MP4059-100	1276-49
		IDT7MP4059-55	1276-29
			(Continued)
7MP4059	IDT		(Cont'd)
		IDT7MP4059-70	1276-32
		IDT7MP4059-85	1276-37
7MP4104	IDT	IDT7MP4104-20	1272-36
		IDT7MP4104-25	1272-37
		IDT7MP4104-35	1272-38
7MP456	IDT	IDT7MP456-25	1182-42
7MP6025	IDT	IDT7MP6025-40	1185-57
7MP6074	IDT	IDT7MP6074-12	1299-15
		IDT7MP6074-15	1299-16
		IDT7MP6074-17	1299-17
		IDT7MP6074-20	1299-18
		IDT7MP6074-25	1299-19
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7MP6084	IDT	IDT7MP6084-12	1299-25
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		IDT7MP6084-25	1299-33
		IDT7MP6084-30	1299-34
7MP6085	IDT	IDT7MP6085-25	1299-10
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		IDT7MP6085-40	1299-13
		IDT7MP6085-50	1299-14
7MP6087	IDT	IDT7MP6087-25	1299-21
		IDT7MP6087-33	1299-22
		IDT7MP6087-40	1299-23
		IDT7MP6087-50	1299-24
7MP6094	IDT	IDT7MP6094-12	1299-37
		IDT7MP6094-15	1299-38
		IDT7MP6094-17	1299-39
		IDT7MP6094-20	1299-40
		IDT7MP6094-25	1299-41
		IDT7MP6094-30	1299-42
7M1001	IDT	IDT7M1001-25	1245-17
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		IDT7M1001-35	1245-28
		IDT7M1001-35M	1245-29
		IDT7M1001-40	1245-34
		IDT7M1001-40M	1245-35
		IDT7M1001-50	1245-46
		IDT7M1001-50M	1245-47
		IDT7M1001-65	1246-5
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7M1001	IDT		(Cont'd)
		IDT7M1001-65M	1246-6
		IDT7M1001-80	1246-18
7M1002	IDT	IDT7M1002-25	1230-28
		IDT7M1002-30	1230-31
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		IDT7M1002-40	1230-38
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		IDT7M1002-45	1230-43
		IDT7M1002-45M	1230-44
		IDT7M1002-55	1230-45
		IDT7M1002-55M	1230-46
		IDT7M1002-65	1230-47
		IDT7M1002-65M	1230-48
7M1003	IDT	IDT7M1003-25	1239-52
		IDT7M1003-30	1239-54
		IDT7M1003-35	1239-56
		IDT7M1003-35M	1239-57
		IDT7M1003-40	1239-59
		IDT7M1003-40M	1239-60
		IDT7M1003-50	1239-63
		IDT7M1003-50M	1239-64
		IDT7M1003-65	1240-2
		IDT7M1003-65M	1240-3
		IDT7M1003-80M	1240-4
7M1004	IDT	IDT7M1004-100M	1226-15
		IDT7M1004-30	1226-5
		IDT7M1004-35	1226-6
		IDT7M1004-40M	1226-7
		IDT7M1004-45	1226-8
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		IDT7M1004-65M	1226-13
		IDT7M1004-80M	1226-14
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		IDT7M1005-30	1230-50
		IDT7M1005-35	1230-51
		IDT7M1005-40M	1230-52
		IDT7M1005-45	1230-53
		IDT7M1005-45M	1230-54
		IDT7M1005-55	1230-55
		IDT7M1005-55M	1230-56
		IDT7M1005-65	1230-57
		IDT7M1005-65M	1230-58
		IDT7M1005-80M	1230-59
7M1012	IDT	IDT7M1012-25	1225-38
		IDT7M1012-30	1225-39
		IDT7M1012-30M	1225-40
		IDT7M1012-40	1225-41
		IDT7M1012-40M	1225-42
		IDT7M1012-50	1225-43
		IDT7M1012-50M	1225-44
		IDT7M1012-60	1225-45
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M1012	IDT		(Cont'd)
		IDT7M1012-60M	1225-46
		IDT7M1012-70M	1225-47
M1014	IDT	IDT7M1014-15	1225-57
		IDT7M1014-20	1225-58
		IDT7M1014-20M	1225-59
		IDT7M1014-25	1226-1
		IDT7M1014-25M	1226-2
		IDT7M1014-30	1226-3
		IDT7M1014-30M	1226-4
M134	IDT	IDT7M134S-120B	1226-22
		IDT7M134S-140B	1226-24
		IDT7M134S-45	1143-64
		IDT7M134S-70	1226-16
		IDT7M134S-90	1226-18
		IDT7M134S-90B	1226-19
M135	IDT	IDT7M135S-120B	1228-11
		IDT7M135S-140B	1228-13
		IDT7M135S-45	1159-13
		IDT7M135S-70	1227-64
		IDT7M135S-90	1228-7
		IDT7M135S-90B	1228-8
M144	IDT	IDT7M144S-120B	1226-23
		IDT7M144S-140B	1226-25
		IDT7M144S-45	1143-65
		IDT7M144S-60	1144-46
		IDT7M144S-70	1226-17
		IDT7M144S-90	1226-20
		IDT7M144S-90B	1226-21
M145	IDT	IDT7M145S-120B	1228-12
		IDT7M145S-140B	1228-14
		IDT7M145S-45	1159-14
		IDT7M145S-60	1159-15
		IDT7M145S-70	1227-65
		IDT7M145S-90	1228-9
		IDT7M145S-90B	1228-10
M194	Cypress	CY7M194-10C	1234-43
		CY7M194-12C	1234-44
		CY7M194-12M	1234-45
		CY7M194-15C	1234-46
		CY7M194-15M	1234-47
		CY7M194-20C	1234-48
		CY7M194-20M	1234-49
M199	Cypress	CY7M199-10C	1230-61
		CY7M199-12C	1231-1
		CY7M199-12M	1231-2
		CY7M199-15C	1231-3
		CY7M199-15M	1231-4
		CY7M199-20M	1231-5
M203	IDT	IDT7M203S-100B	910-27
		IDT7M203S-40	911-17
		IDT7M203S-50	910-66
		IDT7M203S-50B	910-67
		IDT7M203S-55B	910-86
		IDT7M203S-65	910-42
		IDT7M203S-65B	910-43
M204	IDT	IDT7M204S-100	912-49
		IDT7M204S-100B	912-50
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		IDT7M204S-50	912-81
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		IDT7M204S-65	912-62
		IDT7M204S-65B	912-63
7M207	IDT	IDT7M207-20	915-28
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		IDT7M207-40M	915-10
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		IDT7M207-50M	915-2
		IDT7M207-60	914-107
		IDT7M207-60M	914-108
		IDT7M207-70	914-105
		IDT7M207-70M	914-106
7M208	IDT	IDT7M208-20	915-62
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		IDT7M208-60M	915-52
		IDT7M208-70	915-49
		IDT7M208-70M	915-50
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		IDT7M4003-15M	1233-25
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		IDT7M4003-70M	1233-61
		IDT7M4003-85M	1234-3
7M4013	IDT	IDT7M4013-15	1243-54
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		IDT7M4013-50M	1244-31
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		IDT7M4013-70M	1244-38
		IDT7M4013-85M	1244-43
7M4036	IDT	IDT7M4036-10	1238-50
		IDT7M4036-12	1238-51
		IDT7M4036-15	1238-52
		IDT7M4036-17	1238-54
		IDT7M4036-20	1238-57
		IDT7M4036-25	1238-62
		IDT7M4036-35	1239-13
7M4048	IDT	IDT7M4048-100	1268-13
		IDT7M4048-120	1268-49
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		IDT7M4048-17	1265-14
		IDT7M4048-20	1265-15
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		IDT7M4048-70	1267-8
		IDT7M4048-85	1267-30
7M4068	IDT	IDT7M4068-10	1255-50
		IDT7M4068-100M	1258-37
		IDT7M4068-12	1255-53
		IDT7M4068-120M	1258-62
		IDT7M4068-15	1255-56
		IDT7M4068-17	1256-2
		IDT7M4068-20	1256-6
		IDT7M4068-25	1256-15
		IDT7M4068-30	1256-33
		IDT7M4068-45	1257-8
		IDT7M4068-45M	1257-6
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		IDT71027L-90B	1221-26
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71258	IDT	IDT71258L-20	1182-26
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282	IDT	IDT71282L-25	1183-5
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		IDT71282L-35	1183-62
		IDT71282L-35B	1184-6
		IDT71282L-45	1184-52
		IDT71282L-45B	1184-58
		IDT71282L-55	1185-23
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		IDT71282L-70B	1185-53
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		IDT7130SA-30M	1280-35
		IDT7130SA-35M	1280-60
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		IDT7132SA-25M	1285-4
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		IDT7132SA-30M	1285-28
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		IDT71321LA-25	1284-51
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		IDT71321LA-30	1285-17
		IDT71321LA-30M	1285-21
		IDT71321LA-35	1129-8
		IDT71321LA-35M	1285-53
		IDT71321LA-45	1129-19
		IDT71321LA-45B	1281-48
		IDT71321LA-55	1129-38
		IDT71321LA-55B	1281-64
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		IDT71321SA-25M	1285-5
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		IDT71321SA-30M	1285-29
		IDT71321SA-35	1131-31
		IDT71321SA-35M	1285-61
		IDT71321SA-45	1129-20
		IDT71321SA-45B	1129-21
		IDT71321SA-55	1129-39
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		IDT71321SA-70B	1286-29
71322	IDT	IDT71322L-45	1129-22
		IDT71322L-45B	1281-49
		IDT71322L-55	1281-65
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		IDT7133L-70	1131-10
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		IDT7133L-90	1283-45
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		IDT7133LA-35	1283-56
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		IDT7133SA-45M	1284-5
		IDT7133SA-55	1284-9
		IDT7133SA-55M	1284-13
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		IDT7133SA-90	1284-27
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7134	Elantec	EL7134	634-44
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		IDT7134L-55	1137-31
		IDT7134L-55B	1286-35
		IDT7134L-70	1137-35
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		IDT7134LA-25	1287-17
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		IDT7134SA-55	1287-59
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71340	Toko	TK71340	804-113
71342	IDT	IDT71342L-45	1137-27
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		IDT71342SA-45M	1287-52
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		IDT7140LA-90B	1278-31
		IDT7140SA-100	1278-40
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		IDT7140SA-25M	1280-23
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		IDT7140SA-35	1277-50
		IDT7140SA-35M	1280-61
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		IDT7142SA-90	1282-29
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71421	IDT	IDT71421LA-20	1284-37
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		IDT7143S-70B	1283-44
		IDT7143S-90	1284-23
		IDT7143S-90B	1283-51
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		IDT7143SA-35	1283-59
		IDT7143SA-35M	1283-63
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		MN7145S/B	**★3691** 547-36
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	MicroNet	**MN7150-16**	**★3691** 853-101
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7150K135	AD	ADV7150K135	579-5
7150K170	AD	ADV7150K170	579-6
7150K85	AD	ADV7150K85	579-7
71502	IDT	IDT71502L-35	1137-55
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7151	**AD**	**ADV7151**	**★3518** 419-13
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	Philips	**SAA7151B**	**★3746** 726-58
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7151K135	AD	ADV7151K135	579-9
7151K170	AD	ADV7151K170	579-10
7151K85	AD	ADV7151K85	579-11
7152	**AD**	**ADV7152**	**★3518** 419-15
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7152K110	AD	ADV7152K110	579-12
7152K135	AD	ADV7152K135	579-13
7152K170	AD	ADV7152K170	579-14
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7157	Philips	SAA7157	726-30
71586	IDT	IDT71586S-25	1137-54
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		IDT7164L-20	1142-52
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		IDT7164L-70B	1144-56
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		IDT7164S-120B	1145-47
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		IDT7164S-20	1142-55
		IDT7164S-20B	1143-1
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		IDT7164S-25	1143-14
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7166	**LSI Comp**	**LS7166**	**★3681** 124-50 ¶ 3304-26
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		AM7203A-35	910-111
		AM7203A-50	910-78
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		IDT7203L-40M	910-96
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		IDT7203L-65	910-44
		IDT7203L-65B	910-45
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		IDT7203S-30B	911-19
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		MS7203-25	**★ 3697**
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		MS7203-35	**★ 3697**
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		IDT7204L-50B	912-84
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		IDT7204L-65B	912-65
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		IDT7204S-20	913-72
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		IDT7204S-30B	913-30
		IDT7204S-35	913-15
		IDT7204S-40M	913-1
		IDT7204S-50	912-85
		IDT7204S-50B	912-86
		IDT7204S-65	912-66
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		MS7204-25	**★ 3697**
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7206	IDT	IDT7206L-20	909-40
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		IDT7206L-40	903-16
		IDT7206L-50	903-12
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72067	NEC	µPD72067	416-41
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7208	Harris	ICM7208	122-45
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		IDT72103-40B	910-99
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		IDT72103-65	910-59
		IDT72103-65B	910-60
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		IDT72103-80B	910-38
		IDT72103B	911-93
	NEC	µPD72103	416-12
72104	IDT	IDT72104	913-92
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		IDT72104-120B	
			912-47
		IDT72104-35	913-17
		IDT72104-40B	913-3
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		IDT72104-65B	912-78
		IDT72104-80	912-58
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21265	IDT	IDT721265	423-35
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	Harris	ICM7213	148-114
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2131	IDT	IDT72131-120	911-20
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		IDT72131-40M	911-101
		IDT72131-50	911-80
		IDT72131-50M	911-81
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		IDT72131-80	915-72
		IDT72131-80M	911-27
2132	IDT	IDT72132-120	911-22
		IDT72132-120M	911-23
		IDT72132-35	911-102
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		IDT72132-50	911-82
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		IDT72132-65M	911-60
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	SGS-Thomson	TDA7220	719-55
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		IDT72210L-25M	905-52
		IDT72210L-35	905-49
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		IDT72211L-50	906-40
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		IDT72215LB-25M	907-85
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		IDT72220L-50	907-109
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722201	IDT	IDT722201L-25	905-2
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72221	IDT	IDT72221L-20	909-54
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		IDT72221L-50	908-74
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74CBT6800	TI	SN74CBT6800	180-3
74CFT245	Quality Semi	QS74CFT245C	114-122
74CT2524	National	CGS74CT2524	634-16
74CT2525	National	CGS74CT2525	151-116
74CT2526	National	CGS74CT2526	151-120
74CT2527	National	CGS74CT2527	634-17
74C00	National	MM74C00	136-133
74C02	National	MM74C02	139-17
74C04	LinearTech	74C04	¶ 3362-3
	National	MM74C04	109-13
74C08	National	MM74C08	135-106
74C10	National	MM74C10	136-60
74C107	National	MM74C107	134-68
74C14	National	MM74C14	153-141
74C151	National	MM74C151	147-24
74C154	National	MM74C154	126-99
74C157	National	MM74C157	145-98
74C160	National	MM74C160	122-95
74C161	National	MM74C161	118-119
74C162	National	MM74C162	122-55
74C163	National	MM74C163	119-47
74C164	National	MM74C164	150-17
74C165	National	MM74C165	149-169
74C173	National	MM74C173	130-23
74C174	National	MM74C174	130-77
74C175	National	MM74C175	129-161
74C192	National	MM74C192	122-139
74C193	National	MM74C193	119-135
74C195	National	MM74C195	149-87
74C20	National	MM74C20	135-190
74C200	National	MM74C200	144-87 1120-55
74C221	National	MM74C221	148-7
74C240	National	MM74C240	110-88

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74C244	National	MM74C244	111-6
74C2525	National	CGS74C2525	151-117
74C2526	National	CGS74C2526	151-121
74C30	National	MM74C30	137-49
74C32	National	MM74C32	138-49
74C372	National	K74C372	190-123
74C373	National	MM74C373	140-106
74C374	National	MM74C374	132-121
74C42	National	MM74C42	124-72
74C48	National	MM74C48	124-110
74C73	National	MM74C73	134-69
74C74	National	MM74C74	129-81
74C76	National	MM74C76	134-18
74C83	National	MM74C83	102-14
74C85	National	MM74C85	103-67
74C86	National	MM74C86	139-107
74C89	National	MM74C89	144-80 1119-57
74C90	National	MM74C90	122-85
74C901	National	MM74C901	106-43
74C902	National	MM74C902	106-46
74C903	National	MM74C903	106-6
74C904	National	MM74C904	106-9
74C905	National	MM74C905	153-38
74C906	National	MM74C906	105-177
74C907	National	MM74C907	106-3
74C908	National	MM74C908	129-25
74C909	National	MM74C909	151-125 714-39
74C910	National	MM74C910	144-97
74C911	National	MM74C911	129-52 610-20
74C912	National	MM74C912	129-53 610-50
74C914	National	MM74C914	153-142
74C915	National	MM74C915	129-55 610-62
74C917	National	MM74C917	129-54 610-51
74C918	National	MM74C918	129-26
74C922	National	MM74C922	613-4
74C923	National	MM74C923	613-6
74C925	National	MM74C925	123-129
74C926	National	MM74C926	123-130
74C927	National	MM74C927	123-98
74C928	National	MM74C928	123-97
74C93	National	MM74C93	118-91
74C932	National	MM74C932	151-126 801-41
74C941	National	MM74C941	106-160 615-45
74C945	Maxim	MM74C945	123-99
	National	MM74C945	123-101
74C946	National	MM74C946	123-93
74C947	Maxim	MM74C947	123-100
	National	MM74C947	123-102
74C95	National	MM74C95	149-31
74C956	National	MM74C956	128-126 415-19 610-22
74C989	National	MM74C989	144-43 1119-56
74FBT2240	IDT	IDT74FBT2240	155-72
		IDT74FBT2240A	155-73
		IDT74FBT2240C	155-74
74FBT2244	IDT	IDT74FBT2244	155-92
		IDT74FBT2244A	155-93
		IDT74FBT2244C	155-94
74FBT2373	IDT	IDT74FBT2373	157-90
		IDT74FBT2373A	157-91
		IDT74FBT2373C	157-92
74FBT240	IDT	IDT74FBT240	155-75
		IDT74FBT240A	155-76

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⋆ Indicates additional data is provided on the page noted.

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74FBT240	IDT		(Cont'd)
		IDT74FBT240C	155-77
74FBT241	IDT	IDT74FBT241	155-95
		IDT74FBT241A	155-96
		IDT74FBT241C	155-97
74FBT244	IDT	IDT74FBT244	155-98
		IDT74FBT244A	155-99
		IDT74FBT244C	155-100
74FBT245	IDT	IDT74FBT245	156-48
		IDT74FBT245A	156-49
		IDT74FBT245C	156-50
74FBT2827	IDT	IDT74FBT2827A	155-124
		IDT74FBT2827B	155-125
74FBT2828	IDT	IDT74FBT2828A	155-112
		IDT74FBT2828B	155-113
74FBT2841	IDT	IDT74FBT2841A	143-108
		IDT74FBT2841B	143-109
		IDT74FBT2841C	143-110
74FBT373	IDT	IDT74FBT373	157-84
		IDT74FBT373A	157-85
		IDT74FBT373C	157-86
74FBT374	IDT	IDT74FBT374	157-41
		IDT74FBT374A	157-42
		IDT74FBT374C	157-43
74FBT540	IDT	IDT74FBT540	155-78
		IDT74FBT540A	155-79
		IDT74FBT540C	155-80
74FBT541	IDT	IDT74FBT541	155-40
		IDT74FBT541A	155-41
		IDT74FBT541C	155-42
74FBT821	IDT	IDT74FBT821A	156-103
		IDT74FBT821B	156-104
		IDT74FBT821C	156-105
74FBT823	IDT	IDT74FBT823A	156-84
		IDT74FBT823B	156-85
		IDT74FBT823C	156-86
74FBT827	IDT	IDT74FBT827A	155-126
		IDT74FBT827B	155-127
		IDT74FBT827C	155-128
74FBT828	IDT	IDT74FBT828A	155-114
		IDT74FBT828B	155-115
		IDT74FBT828C	155-116
74FBT841	IDT	IDT74FBT841A	157-144
		IDT74FBT841B	157-145
		IDT74FBT841C	157-146
74FCT1280	Quality Semi	QS74FCT1280	104-55
		QS74FCT1280A	104-56
		QS74FCT1280B	104-57
74FCT138	IDT	IDT74FCT138	125-104
		IDT74FCT138A	125-105
		IDT74FCT138AT	125-106
		IDT74FCT138C	125-107
		IDT74FCT138CT	125-108
		IDT74FCT138T	125-109
	National	74FCT138	125-112
		74FCT138A	125-113
	Performance	P74FCT138	125-122
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74FCT138	Performance		(Cont'd)
		P74FCT138A	125-192
		P74FCT138AT	125-123
		P74FCT138CT	125-124
		P74FCT138T	125-125
	Quality Semi	QS74FCT138	125-131
		QS74FCT138A	125-132
		QS74FCT138B	125-133
		QS74FCT138C	125-134
		QS74FCT138D	125-135
74FCT139	IDT	IDT74FCT139	124-171
		IDT74FCT139A	124-172
		IDT74FCT139AT	124-135
		IDT74FCT139C	124-173
		IDT74FCT139CT	124-136
		IDT74FCT139T	124-137
	Performance	P74FCT139	124-182
		P74FCT139A	124-183
		P74FCT139AT	124-184
		P74FCT139CT	125-1
		P74FCT139T	125-2
	Quality Semi	QS74FCT139	125-13
		QS74FCT139A	125-14
		QS74FCT139B	125-15
		QS74FCT139C	125-16
		QS74FCT139D	125-17
74FCT151	IDT	IDT74FCT151AT	147-26
		IDT74FCT151CT	147-27
		IDT74FCT151T	147-28
	Quality Semi	QS74FCT151	147-33
		QS74FCT151A	147-34
74FCT153	Quality Semi	QS74FCT153	146-172
		QS74FCT153A	146-173
74FCT157	IDT	IDT74FCT157AT	146-89
		IDT74FCT157CT	146-90
		IDT74FCT157T	146-91
	Performance	P74FCT157AT	145-102
		P74FCT157CT	145-103
		P74FCT157T	145-104
	Quality Semi	QS74FCT157	145-75
		QS74FCT157A	145-76
		QS74FCT157C	145-77
74FCT158	Performance	P74FCT158AT	145-157
		P74FCT158CT	145-158
		P74FCT158T	145-159
	Quality Semi	QS74FCT158	146-51
		QS74FCT158A	146-52
		QS74FCT158C	146-53
74FCT161	IDT	IDT74FCT161	118-125
		IDT74FCT161A	118-126
		IDT74FCT161AT	120-19
		IDT74FCT161C	118-127
		IDT74FCT161CT	120-20
		IDT74FCT161T	120-21
	Performance	P74FCT161	118-137
		P74FCT161A	118-138
		P74FCT161AT	118-139
		P74FCT161CT	118-140
		P74FCT161T	118-141
	Quality Semi	QS74FCT161	118-148
		QS74FCT161A	118-149
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74FCT161	Quality Semi		(Cont'd)
		QS74FCT161C	118-150
74FCT162240	IDT	IDT74FCT162240AT	108-117
		IDT74FCT162240CT	108-118
		IDT74FCT162240T	108-119
74FCT162244	IDT	IDT74FCT162244AT	108-120
		IDT74FCT162244CT	108-121
		IDT74FCT162244T	108-122
74FCT162245	IDT	IDT74FCT162245AT	118-18
		IDT74FCT162245CT	118-19
		IDT74FCT162245T	118-20
74FCT162373	IDT	IDT74FCT162373AT	143-127
		IDT74FCT162373CT	143-128
		IDT74FCT162373T	143-129
74FCT162374	IDT	IDT74FCT162374AT	117-67
		IDT74FCT162374CT	117-68
		IDT74FCT162374T	117-69
74FCT16240	IDT	IDT74FCT16240AT	117-19
		IDT74FCT16240CT	117-20
		IDT74FCT16240T	117-21
74FCT16244	IDT	IDT74FCT16244AT	117-37
		IDT74FCT16244CT	117-38
		IDT74FCT16244T	117-39
74FCT16245	IDT	IDT74FCT16245AT	118-21
		IDT74FCT16245CT	118-22
		IDT74FCT16245T	118-23
74FCT162500	IDT	IDT74FCT162500AT	118-37
		IDT74FCT162500CT	118-38
74FCT162501	IDT	IDT74FCT162501AT	118-46
		IDT74FCT162501CT	118-47
74FCT162543	IDT	IDT74FCT162543AT	118-24
		IDT74FCT162543CT	118-25
		IDT74FCT162543DT	118-26
		IDT74FCT162543T	118-27
74FCT162646	IDT	IDT74FCT162646AT	117-129
		IDT74FCT162646CT	117-130
			(Continued)

Base Number	Source	Device	Page-Line
74FCT162646	IDT		(Cont
		IDT74FCT162646T	117-13
74FCT162652	IDT	IDT74FCT162652AT	117-13
		IDT74FCT162652CT	117-13
		IDT74FCT162652T	117-13
74FCT162823	IDT	IDT74FCT162823AT	118-63
		IDT74FCT162823BT	118-64
		IDT74FCT162823CT	118-65
74FCT162827	IDT	IDT74FCT162827AT	118-81
		IDT74FCT162827BT	118-82
		IDT74FCT162827CT	118-83
74FCT162841	IDT	IDT74FCT162841AT	143-15
		IDT74FCT162841BT	143-15
		IDT74FCT162841CT	143-16
74FCT162952	IDT	IDT74FCT162952AT	117-13
		IDT74FCT162952BT	117-13
		IDT74FCT162952CT	117-13
		IDT74FCT162952DT	117-13
74FCT163	IDT	IDT74FCT163	119-52
		IDT74FCT163A	119-53
		IDT74FCT163AT	120-25
		IDT74FCT163C	119-54
		IDT74FCT163CT	120-26
		IDT74FCT163T	120-27
	Performance	P74FCT163	119-60
		P74FCT163A	119-61
		P74FCT163AT	119-12
		P74FCT163CT	119-62
		P74FCT163T	118-14
	Quality Semi	QS74FCT163	119-68
		QS74FCT163A	119-69
		QS74FCT163C	119-70
74FCT163245	IDT	IDT74FCT163245	117-74
74FCT163373	IDT	IDT74FCT163373	143-14
		IDT74FCT163373A	143-14
74FCT163374	IDT	IDT74FCT163374	117-10
		IDT74FCT163374A	117-10
74FCT16346	IDT	IDT74FCT16346	117-88
		IDT74FCT16346A	117-89
74FCT163501	IDT	IDT74FCT163501	118-71
		IDT74FCT163501A	118-72
74FCT16373	IDT	IDT74FCT16373AT	143-13
		IDT74FCT16373CT	143-13
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Arranged alphanumerically from left to right.

ase mber	Source	Device	Page-Line
4FCT16373	IDT		(Cont'd)
		IDT74FCT16373T	143-132
4FCT16374	IDT	IDT74FCT16374AT	117-70
		IDT74FCT16374CT	117-71
		IDT74FCT16374T	117-72
4FCT164245	IDT	IDT74FCT164245T	151-89
4FCT16500	IDT	IDT74FCT16500AT	118-39
		IDT74FCT16500CT	118-40
4FCT16501	IDT	IDT74FCT16501AT	118-41
		IDT74FCT16501CT	118-48
4FCT16543	IDT	IDT74FCT16543AT	118-28
		IDT74FCT16543CT	118-29
		IDT74FCT16543DT	118-30
		IDT74FCT16543T	118-31
4FCT16646	IDT	IDT74FCT16646AT	117-139
		IDT74FCT16646CT	117-140
		IDT74FCT16646T	117-141
4FCT16652	IDT	IDT74FCT16652AT	117-142
		IDT74FCT16652CT	117-143
		IDT74FCT16652T	117-144
4FCT16823	IDT	IDT74FCT16823AT	118-66
		IDT74FCT16823BT	118-67
		IDT74FCT16823CT	118-68
4FCT16827	IDT	IDT74FCT16827AT	118-84
		IDT74FCT16827BT	118-85
		IDT74FCT16827CT	118-86
4FCT16841	IDT	IDT74FCT16841AT	143-161
		IDT74FCT16841BT	143-162
		IDT74FCT16841CT	143-163
4FCT16952	IDT	IDT74FCT16952AT	117-145
		IDT74FCT16952BT	117-146
		IDT74FCT16952CT	117-147
		IDT74FCT16952DT	117-148
4FCT182	IDT	IDT74FCT182	103-39
		IDT74FCT182A	103-40
4FCT191	IDT	IDT74FCT191	119-138
		IDT74FCT191A	119-139
		IDT74FCT191AT	120-40
		IDT74FCT191T	120-41
	Performance	P74FCT191AT	121-168
		P74FCT191CT	121-169
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74FCT191	Performance		(Cont'd)
		P74FCT191T	121-170
	Quality Semi	QS74FCT191	122-1
		QS74FCT191A	122-2
		QS74FCT191C	122-3
74FCT193	IDT	IDT74FCT193	120-7
		IDT74FCT193A	120-8
		IDT74FCT193AT	120-44
		IDT74FCT193T	120-45
	Quality Semi	QS74FCT193	121-161
		QS74FCT193A	121-162
74FCT20521	Quality Semi	QS74FCT20521	102-77
74FCT2138	Quality Semi	QS74FCT2138	125-136
74FCT2139	Quality Semi	QS74FCT2139	125-18
74FCT2151	Quality Semi	QS74FCT2151	147-35
		QS74FCT2151A	147-36
74FCT2153	Quality Semi	QS74FCT2153	146-174
		QS74FCT2153A	146-175
74FCT2157	Quality Semi	QS74FCT2157	145-78
		QS74FCT2157A	145-79
74FCT2158	Quality Semi	QS74FCT2158	146-54
		QS74FCT2158A	146-55
74FCT2161	Quality Semi	QS74FCT2161	118-151
		QS74FCT2161A	118-152
74FCT2163	Quality Semi	QS74FCT2163	119-71
		QS74FCT2163A	119-72
74FCT2191	Quality Semi	QS74FCT2191	122-4
		QS74FCT2191A	122-5
74FCT2193	Quality Semi	QS74FCT2193	121-163
		QS74FCT2193A	121-164
74FCT2238	Quality Semi	QS74FCT2238	125-137
74FCT2239	Quality Semi	QS74FCT2239	125-19
74FCT2240	Quality Semi	QS74FCT2240	107-125
		QS74FCT2240A	107-126
		QS74FCT2240C	107-127
74FCT2241	Quality Semi	QS74FCT2241	107-155
		QS74FCT2241A	107-156
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74FCT2241	Quality Semi		(Cont'd)
		QS74FCT2241C	107-157
74FCT2244	Quality Semi	QS74FCT2244	107-158
		QS74FCT2244A	107-159
		QS74FCT2244C	107-160
74FCT2245	Quality Semi	QS74FCT2245	114-123
		QS74FCT2245A	114-124
		QS74FCT2245C	114-125
74FCT2251	Quality Semi	QS74FCT2251	147-102
		QS74FCT2251A	147-103
74FCT2253	Quality Semi	QS74FCT2253	147-2
		QS74FCT2253A	147-3
74FCT2257	Quality Semi	QS74FCT2257	146-134
		QS74FCT2257A	146-115
74FCT2258	Quality Semi	QS74FCT2258	146-129
		QS74FCT2258A	146-130
74FCT2273	Quality Semi	QS74FCT2273	131-25
		QS74FCT2273A	131-26
		QS74FCT2273C	131-27
74FCT2299	Quality Semi	QS74FCT2299	150-120
		QS74FCT2299A	150-121
74FCT2373	Quality Semi	QS74FCT2373	141-144
		QS74FCT2373A	141-145
		QS74FCT2373C	141-146
		QS74FCT2373D	141-147
74FCT2374	Quality Semi	QS74FCT2374	132-191
		QS74FCT2374A	132-192
		QS74FCT2374C	132-193
74FCT2377	Quality Semi	QS74FCT2377	131-147
		QS74FCT2377A	131-148
		QS74FCT2377C	131-149
74FCT238	Quality Semi	QS74FCT238	125-202
		QS74FCT238A	125-203
		QS74FCT238B	125-204
		QS74FCT238C	125-205
		QS74FCT238D	125-206
74FCT239	Quality Semi	QS74FCT239	125-20
		QS74FCT239A	125-21
		QS74FCT239B	125-22
		QS74FCT239C	125-23
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Base Number	Source	Device	Page-Line
74FCT239	Quality Semi		(Cont'd)
		QS74FCT239D	125-24
74FCT240	Harris	CD74FCT240	110-91
		CD74FCT240AT	110-49
	IDT	IDT74FCT240	110-96
		IDT74FCT240A	110-97
		IDT74FCT240AT	106-165
		IDT74FCT240C	110-98
		IDT74FCT240CT	106-166
		IDT74FCT240DT	106-167
		IDT74FCT240T	106-168
	National	74FCT240	155-164
		74FCT240A	155-165
	Performance	P74FCT240	110-102
		P74FCT240A	110-103
		P74FCT240AT	110-104
		P74FCT240CT	107-177
		P74FCT240T	107-178
	Quality Semi	QS74FCT240	107-128
		QS74FCT240A	107-129
		QS74FCT240C	107-130
		QS74FCT240D	107-131
74FCT241	Harris	CD74FCT241	110-63
	IDT	IDT74FCT241	111-84
		IDT74FCT241A	111-85
		IDT74FCT241AT	106-186
		IDT74FCT241C	111-86
		IDT74FCT241CT	106-187
		IDT74FCT241DT	106-188
		IDT74FCT241T	106-189
	National	74FCT241	156-6
		74FCT241A	156-7
	Performance	P74FCT241	111-28
		P74FCT241A	111-29
		P74FCT241AT	111-30
		P74FCT241CT	107-192
		P74FCT241T	107-193
	Quality Semi	QS74FCT241	107-161
		QS74FCT241A	107-162
		QS74FCT241C	107-163
74FCT244	Harris	CD74FCT244	110-64
		CD74FCT244AT	110-48
	IDT	IDT74FCT244	111-17
		IDT74FCT244A	111-18
		IDT74FCT244AT	111-19
		IDT74FCT244C	111-20
		IDT74FCT244CT	111-21
		IDT74FCT244DT	111-22
		IDT74FCT244T	111-23
	National	74FCT244	156-8
		74FCT244A	156-9
	Performance	P74FCT244	111-31
		P74FCT244A	111-32
		P74FCT244AT	110-105
		P74FCT244CT	111-33
		P74FCT244T	107-143
	Quality Semi	QS74FCT244	107-164
		QS74FCT244A	107-165
		QS74FCT244C	107-166
		QS74FCT244D	107-167
74FCT245	Harris	CD74FCT245	113-187
		CD74FCT245AT	113-184
	IDT	IDT74FCT245	114-73
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74FCT846			
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	National	MM74HC165	149-179
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	National	MM74HC173	130-32
	Philips	74HC173	130-33
	SGS-Thomson	M74HC173	130-35
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	Harris	CD74HC174	130-81
	Motorola	MC74HC174A	130-83
	National	MM74HC174	130-85
	Philips	74HC174	130-86
	SGS-Thomson	M74HC174	130-87
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	Mitsubishi	74HC190	122-126
	National	MM74HC190	123-29
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		74LS194	206-66
	TI	SN74LS194A	206-173
74LS195			
	GoldStar	GD74LS195A	206-60
	Motorola	SN74LS195A	206-86
	National	DM74LS195A	206-87
	SGS-Thomson		
		T74LS195A	206-89
		74LS195	206-64
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74LS195			(Cont'd)
	TI	SN74LS195A	206-91
74LS196			
	Motorola	SN74LS196	182-61
	National	74LS196	182-62
	SGS-Thomson		
		T74LS196	181-21
		74LS196	182-63
	TI	SN74LS196	182-65
74LS197			
	Lansdale	**SL74LS197**	**★ 3674**
			180-30
	Motorola	SN74LS197	180-32
	National	74LS197	180-33
	SGS-Thomson		
		T74LS197	181-22
		74LS197	180-34
	TI	SN74LS197	180-36
74LS20	GoldStar	GD74LS20	195-149
	Lansdale	**SL74LS20**	**★ 3674**
			195-151
	Motorola	SN74LS20	195-153
	National	DM74LS20	195-155
		74LS20	195-157
	Rochester	74LS20	195-158
	SGS-Thomson		
		T74LS20	195-161
		74LS20	195-165
	TI	SN74LS20	195-167
74LS21	GoldStar	GD74LS21	194-98
	Lansdale	**SL74LS21**	**★ 3674**
			194-100
	Motorola	SN74LS21	194-102
	National	DM74LS21	194-104
		74LS21	194-106
	Rochester	74LS21	194-107
	SGS-Thomson		
		T74LS21	194-108
		74LS21	194-109
	TI	SN74LS21	194-111
74LS219			
	TI	SN74LS219A	1119-53
74LS22	Motorola	SN74LS22	196-21
	Rochester	74LS22	196-23
	SGS-Thomson		
		T74LS22	195-162
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74LS221			
	GoldStar	GD74LS221	205-172
	Motorola	SN74LS221	205-174
	National	DM74LS221	205-176
	TI	SN74LS221	205-178
74LS222			
	TI	SN74LS222A	903-26
74LS224			
	TI	SN74LS224A	903-27
74LS227			
	TI	SN74LS227	903-29
74LS228			
	TI	SN74LS228	903-30
74LS240			
	GoldStar	GD74LS240	176-140
			616-4
	Lansdale	**SL74LS240**	**★ 3674**
			176-142
	Motorola	SN74LS240	176-144
			616-8
	National	DM74LS240	176-146
		74LS240	176-148
			616-15
	SGS-Thomson		
		T74LS240	174-156
		74LS240	174-160
	TI	SN74LS240	176-150
			616-26
74LS241			
	GoldStar	GD74LS241	177-60
			615-28
	Lansdale	**SL74LS241**	**★ 3674**
			177-64
	Motorola	SN74LS241	177-68
			615-37
	National	DM74LS241	177-71
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74LS241			(Cont'd)
	SGS-Thomson		
		T74LS241	174-157
		74LS241	174-161
	TI	SN74LS241	177-78
			615-63
74LS242			
	GoldStar	GD74LS242	178-190
	Lansdale	**SL74LS242**	**★ 3674**
			178-194
	Motorola	SN74LS242	178-196
			624-29
	TI	SN74LS242	178-199
			623-41
74LS243			
	GoldStar	GD74LS243	179-73
	Lansdale	**SL74LS243**	**★ 3674**
			179-79
	Motorola	SN74LS243	179-86
			624-30
	National	DM74LS243	179-91
			624-31
	TI	SN74LS243	179-103
			623-42
74LS244			
	GoldStar	GD74LS244	177-61
			615-29
	Lansdale	**SL74LS244**	**★ 3674**
			177-65
	Motorola	SN74LS244	177-69
			615-38
	National	DM74LS244	615-42
		74LS244	177-75
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	SGS-Thomson		
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74LS245			
	GoldStar	GD74LS245	179-74
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	Lansdale	**SL74LS245**	**★ 3674**
			179-80
	Motorola	SN74LS245	179-87
			627-20
	National	DM74LS245	179-92
			627-23
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	Rochester	74LS245	179-95
	SGS-Thomson		
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74LS247			
	Motorola	SN74LS247	609-61
	National	74LS247	609-70
	TI	SN74LS247	609-85
74LS248			
	Motorola	SN74LS248	609-42
	National	74LS248	609-48
	SGS-Thomson		
		T74LS248	609-54
74LS248B1			
	SGS-Thomson		
		T74LS248B1	609-55
74LS249			
	Motorola	MC74LS249	609-40
	National	74LS249	609-49
74LS251			
	GoldStar	GD74LS251	205-101
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			205-103
	Motorola	SN74LS251	205-105
	National	DM74LS251	205-107
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	Motorola	SN74LS253	203-125
	National	DM74LS253	203-127
		74LS253	203-129
	Rochester	74LS253	203-130
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74LS256			
	Lansdale	**SL74LS256**	**★3674**
			200-139
	Motorola	SN74LS256	200-141
	National	74LS256	200-143
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	GoldStar	GD74LS257A	204-144
	Lansdale	**SL74LS257A**	**★3674**
			204-146
	Motorola	SN74LS257A	204-149
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	National	DM74LS257B	204-152
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4LS258			
	GoldStar	GD74LS258B	204-37
	Lansdale	**SL74LS258A**	**★3674**
			204-39
	Motorola	SN74LS258A	204-42
		SN74LS258B	204-43
	National	DM74LS258B	204-45
		74LS258	204-47
	Rochester	74LS258	204-48
	SGS-Thomson		
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		74LS258	204-50
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4LS259			
	GoldStar	GD74LS259	201-71
	Lansdale	**SL74LS259**	**★3674**
			201-73
	Motorola	SN74LS259	201-75
	National	DM74LS259	201-77
		74LS259	201-79
	Rochester	74LS259	201-80
	SGS-Thomson		
		T74LS259	201-56
		74LS259	201-82
	TI	SN74LS259B	201-84
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4LS26	GoldStar	GD74LS26	197-73
	Lansdale	**SL74LS26**	**★3674**
			197-75
	Motorola	SN74LS26	197-77
	National	DM74LS26	197-79
		74LS26	197-81
	Rochester	74LS26	197-82
	SGS-Thomson		
		T74LS26	196-184
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4LS260			
	Motorola	SN74LS260	199-79
	National	74LS260	199-81
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		T74LS260	199-83
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4LS266			
	Lansdale	**SL74LS266**	**★3674**
			200-115
	Motorola	SN74LS266	200-117
	National	74LS266	200-119
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	Lansdale	**SL74LS27**	**★3674**
			199-112
	Motorola	SN74LS27	199-114
	National	DM74LS27	199-116
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	Rochester	74LS27	199-119
	SGS-Thomson		
		T74LS27	199-121
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74LS273			
	GoldStar	GD74LS273	192-88
	Lansdale	**SL74LS273**	**★3674**
			192-89
	Motorola	SN74LS273	192-91
	National	74LS273	192-93
	SGS-Thomson		
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74LS279			
	Motorola	SN74LS279	201-14
	National	DM74LS279	201-16
		74LS279	201-18
	Rochester	74LS279	201-19
	SGS-Thomson		
		T74LS279	201-7
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74LS28	Motorola	SN74LS28	199-194
	National	74LS28	199-200
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		T74LS28	199-202
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74LS280			
	GoldStar	GD74LS280	210-27
	Motorola	SN74LS280	210-29
	SGS-Thomson		
		T74LS280	173-131
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74LS283			
	GoldStar	GD74LS283	173-86
	Lansdale	**SL74LS283**	**★3674**
			173-89
	Motorola	SN74LS283	173-93
	National	DM74LS283	173-97
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	SGS-Thomson		
		T74LS283	173-67
		74LS283	173-106
	TI	SN74LS283	173-110
74LS290			
	Motorola	SN74LS290	182-41
	National	DM74LS290	182-43
		74LS290	182-45
	SGS-Thomson		
		T74LS290	182-46
	TI	SN74LS290	182-53
74LS292			
	TI	SN74LS292	183-62
74LS293			
	Motorola	SN74LS293	180-171
	National	DM74LS293	180-173
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	SGS-Thomson		
		T74LS293	183-59
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74LS294			
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74LS295			
	Lansdale	**SL74LS295B**	**★3674**
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			204-184
	Motorola	SN74LS298	204-188
	National	74LS298	204-192
	SGS-Thomson		
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74LS299			
	Motorola	SN74LS299	207-164
	National	74LS299	207-168
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74LS30	GoldStar	GD74LS30	197-191
	Lansdale	**SL74LS30**	**★3674**
			197-193
	Motorola	SN74LS30	197-195
	National	DM74LS30	197-197
		74LS30	197-199
	Rochester	74LS30	197-200
	SGS-Thomson		
		T74LS30	197-202
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	TI	SN74LS30	197-206
74LS301			
	Lansdale	**SL74LS301**	**★3674**
			1122-9
74LS31	TI	SN74LS31	208-48
74LS32	GoldStar	GD74LS32	199-31
	Lansdale	**SL74LS32**	**★3674**
			199-33
	Motorola	SN74LS32	199-35
	National	DM74LS32	199-37
		74LS32	199-39
	Rochester	74LS32	199-40
	SGS-Thomson		
		T74LS32	199-42
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74LS321			
	Rochester	74LS321	208-98
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74LS322			
	GoldStar	GD74LS322	173-123
	Motorola	SN74LS322A	173-125
	National	74LS322	207-127
	TI	SN74LS322A	173-128
74LS323			
	Motorola	SN74LS323	207-165
	National	74LS323	207-169
	TI	SN74LS323	207-173
74LS33	**Lansdale**	**SL74LS33**	**★3674**
			174-59
	Motorola	SN74LS33	199-150
	National	74LS33	199-152
	SGS-Thomson		
		T74LS33	199-154
		74LS33	174-61
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74LS347			
	National	74LS347	609-71
74LS348			
	Motorola	SN74LS348	210-3
	TI	SN74LS348	210-6
			409-156
74LS352			
	Lansdale	**SL74LS352**	**★3674**
			203-76
	Motorola	SN74LS352	203-78
	National	DM74LS352	203-80
		74LS352	203-82
	SGS-Thomson		
		T74LS352	203-84
		74LS352	203-46
	TI	SN74LS352	203-86
74LS353			
	Lansdale	**SL74LS353**	**★3674**
			203-100
	Motorola	SN74LS353	203-102
	National	74LS353	203-104
	SGS-Thomson		
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74LS354			
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74LS356			
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74LS365			
	Lansdale	**SL74LS365A**	**★3674**
			174-123
	Motorola	SN74LS365A	174-126
	National	DM74LS365A	174-130
		74LS365	174-134
	Rochester	74LS365	174-136
	SGS-Thomson		
		T74LS365A	174-138
		74LS365A	174-142
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74LS366			
	GoldStar	GD74LS366A	175-192
	Lansdale	**SL74LS366A**	**★3674**
			175-195
	Motorola	SN74LS366A	175-199
	National	DM74LS366A	175-203
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	SGS-Thomson		
		T74LS366A	176-7
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74LS367			
	GoldStar	GD74LS367A	174-120
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	Motorola	SN74LS367A	174-127
	National	DM74LS367A	174-131
		74LS367	174-135
	Rochester	74LS367	174-137
	SGS-Thomson		
		T74LS367A	174-139
		74LS367A	174-143
	TI	SN74LS367A	174-147
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74LS368			
	GoldStar	GD74LS368A	175-193
	Lansdale	**SL74LS368A**	**★3674**
			175-196
	Motorola	SN74LS368A	175-200
	National	DM74LS368A	176-1
		74LS368	176-5
	Rochester	74LS368	176-6
	SGS-Thomson		
		T74LS368A	176-8
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74LS37	**Lansdale**	**SL74LS37**	**★3674**
			197-16
	Motorola	SN74LS37	197-18
	National	DM74LS37	197-20
		74LS37	197-22
	Rochester	74LS37	197-23
	SGS-Thomson		
		T74LS37	196-185
		74LS37	197-25
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74LS373			
	GoldStar	GD74LS373	201-128
	Lansdale	**SL74LS373**	**★3674**
			201-130
	Motorola	SN74LS373	201-132
	National	DM74LS373	201-134
		74LS373	201-135
	SGS-Thomson		
		T74LS373	201-137
		74LS373	201-39
	TI	SN74LS373	201-139
74LS374			
	GoldStar	GD74LS374	192-144
	Lansdale	**SL74LS374**	**★3674**
			192-146
	Motorola	SN74LS374	192-148
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	National	DM74LS374	192-150
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	Motorola	SN74LS375	200-167
	National	74LS375	200-172
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74LS377			
	GoldStar	GD74LS377	192-183
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	Motorola	SN74LS377	192-187 ¶ 3331-7
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74LS378			
	Lansdale	**SL74LS378**	**★ 3674** 192-11
	Motorola	SN74LS378	192-13
	National	74LS378	192-15
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74LS379			
	Motorola	SN74LS379	191-124
	National	74LS379	191-126
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74LS38	GoldStar	GD74LS38	197-56
	Lansdale	**SL74LS38**	**★ 3674** 197-58
	Motorola	SN74LS38	197-60
	National	DM74LS38	197-62
		74LS38	197-64
	Rochester	74LS38	197-65
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74LS380			
	National	DM74LS380	207-145
74LS381			
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74LS382			
	TI	SN74LS382A	172-177
74LS386			
	Motorola	SN74LS386	200-80
	National	74LS386	200-84
	Rochester	74LS386	200-86
74LS390			
	GoldStar	GD74LS390	182-119
	Lansdale	**SL74LS390**	**★ 3674** 182-121
	Motorola	SN74LS390	182-125
	National	DM74LS390	182-127
	SGS-Thomson	T74LS390	182-132
		74LS390	182-12
	TI	SN74LS390	182-136
74LS393			
	GoldStar	GD74LS393	180-140
	Lansdale	**SL74LS393**	**★ 3674** 180-142
	Motorola	SN74LS393	180-144
	National	DM74LS393	180-145
		74LS393	180-146
	SGS-Thomson	T74LS393	180-148
		74LS393	180-151
	TI	SN74LS393	180-150
74LS395			
	GoldStar	GD74LS395	206-135
	Lansdale	**SL74LS395A**	**★ 3674** 206-137
	Motorola	SN74LS395	206-138
	National	74LS395	206-139
	SGS-Thomson	T74LS395A	206-141
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	TI	SN74LS395A	206-143
74LS398			
	Motorola	SN74LS398	204-189
74LS399			
	Motorola	SN74LS399	204-190
	SGS-Thomson	T74LS399	206-53
		74LS399	206-54
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74LS40	Motorola	SN74LS40	195-201
	National	74LS40	195-203
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74LS42	GoldStar	GD74LS42	183-113
	Motorola	SN74LS42	183-117
	National	DM74LS42	183-119
		74LS42	183-121
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74LS450			
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74LS451			
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74LS453			
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74LS461			
	National	DM74LS461	181-24
74LS465			
	TI	SN74LS465	175-6
74LS466			
	TI	SN74LS466	176-31
74LS47	Motorola	SN74LS47	609-62
	National	74LS47	609-73
	TI	SN74LS47	609-86
74LS471			
	National	DM74LS471	929-42
		DM74LS471-60	929-41
74LS472			
	National	DM74LS472A-45	930-38
74LS48	Motorola	SN74LS48	609-43
	National	74LS48	609-50
74LS490			
	Lansdale	**SL74LS490**	**★ 3674** 182-122
	Motorola	SN74LS490	182-126
	National	74LS490	182-129
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74LS502			
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74LS503			
	National	74LS503	209-153
74LS51	GoldStar	GD74LS51	198-65
	Lansdale	**SL74LS51**	**★ 3674** 198-67
	Motorola	SN74LS51	198-69
	National	DM74LS51	198-70
		74LS51	198-72
	Rochester	74LS51	198-73
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74LS533			
	Lansdale	**SL74LS533**	**★ 3674** 201-172
	National	74LS533	201-173
	SGS-Thomson	T74LS533	201-176
74LS534			
	Lansdale	**SL74LS534**	**★ 3674** 192-70
	National	74LS534	192-71
	SGS-Thomson	T74LS534	192-72
74LS54	**Lansdale**	**SL74LS54**	**★ 3674** 198-145
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74S00	GoldStar	GD74S00	196-194
	Lansdale	**SL74S00**	**★ 3675** 196-196
	National	DM74S00	196-198
		74S00	196-199
	TI	SN74S00	196-202
74S02	GoldStar	GD74S02	200-8
	Lansdale	**SL74S02**	**★ 3675** 200-10
	National	DM74S02	200-12
		74S02	200-13
	TI	SN74S02	200-16
74S03	**Lansdale**	**SL74S03**	**★ 3675** 197-142
	National	DM74S03	197-144
		74S03	197-145
	Rochester	74S03	197-146
	TI	SN74S03	197-150
74S04	GoldStar	GD74S04	175-100
	Lansdale	**SL74S04**	**★ 3675** 175-102
	National	DM74S04	175-104
		74S04	175-105
	Rochester	74S04	175-107
	TI	SN74S04	175-109
74S05	GoldStar	GD74S05	175-158
	Lansdale	**SL74S05**	**★ 3675** 175-160
	National	DM74S05	175-161
		74S05	175-162
	Rochester	74S05	175-163
	TI	SN74S05	175-165
74S08	GoldStar	GD74S08	195-53
	Lansdale	**SL74S08**	**★ 3675** 195-55
	National	DM74S08	195-57
		74S08	195-58
	TI	SN74S08	195-61
74S09	National	DM74S09	195-83
	Rochester	74S09	195-87
	TI	SN74S09	195-94
74S10	GoldStar	GD74S10	196-90
	Lansdale	**SL74S10**	**★ 3675** 196-92
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4S1051	TI	SN74S1051	210-51
4S1052	TI	SN74S1052	210-60
4S1053	TI	SN74S1053	210-61
4S109	National	74S109	193-100
4S11	**Lansdale**	**SL74S11**	**★3675** 194-162
	National	DM74S11	194-164
		74S11	194-165
	Rochester	74S11	194-167
	TI	SN74S11	194-169
4S112	GoldStar	GD74S112	194-41
	Lansdale	**SL74S112**	**★3675** 194-43
	National	DM74S112	194-45
		74S112	194-46
	Rochester	74S112	194-48
	TI	SN74S112	194-50
4S113	National	DM74S113	194-8
	Rochester	74S113	194-10
	TI	SN74S113	194-12
4S114	Rochester	74S114	194-66
	TI	SN74S114	194-68
4S124	TI	SN74S124	803-54
4S132	National	74S132	209-86
	TI	SN74S132	209-88
4S133	GoldStar	GD74S133	198-19
	Lansdale	**SL74S133**	**★3675** 198-21
	National	DM74S133	198-23
		74S133	198-24
	Rochester	74S133	198-26
	TI	SN74S133	198-28
S134	**Lansdale**	**SL74S134**	**★3675** 198-2
	Rochester	74S134	198-4
	TI	SN74S134	198-6
S135	National	74S135	200-20
	Rochester	74S135	200-22
	TI	SN74S135	200-24
S138	GoldStar	GD74S138	184-100
	Lansdale	**SL74S138**	**★3675** 184-102
	National	DM74S138	184-104
		74S138	184-105
	TI	SN74S138	184-108
S139	GoldStar	GD74S139	184-42
	Lansdale	**SL74S139**	**★3675** 184-44
	National	DM74S139	184-46
		74S139	184-47
	Rochester	74S139	184-49
	TI	SN74S139	184-51
S140	**Lansdale**	**SL74S140**	**★3675** 190-12
	National	DM74S140	190-14 617-1
	TI	SN74S140	190-18 617-6
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S151	**Lansdale**	**SL74S151**	**★3675** 205-60
	National	DM74S151	205-62
		74S151	205-63
	Rochester	74S151	205-65
	TI	SN74S151	205-68
S153	GoldStar	GD74S153	203-51
	Lansdale	**SL74S153**	**★3675** 203-53
	National	DM74S153	203-55
		74S153	203-56
	Rochester	74S153	203-58
	TI	SN74S153	203-60
S157	GoldStar	GD74S157	204-116
	Lansdale	**SL74S157**	**★3675** 204-118
	National	DM74S157	204-120
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74S158	GoldStar	GD74S158	204-9
	Lansdale	**SL74S158**	**★3675** 204-11
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	Rochester	74S158	204-16
	TI	SN74S158	204-18
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74S163	GoldStar	GD74S163A	180-122
	TI	SN74S163	180-124
74S169	GoldStar	GD74S169A	181-88
	TI	SN74S169	181-90
74S174	GoldStar	GD74S174	191-194
	Lansdale	**SL74S174**	**★3675** 191-196
	National	DM74S174	191-198
		74S174	191-199
	Rochester	74S174	191-201
	TI	SN74S174	192-2
74S175	GoldStar	GD74S175	191-105
	Lansdale	**SL74S175**	**★3675** 191-107
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		74S175	191-110
	TI	SN74S175	191-113
74S181	**Lansdale**	**SL74S181**	**★3675** 172-179
	TI	SN74S181	172-183
74S182	National	DM74S182	173-18
	TI	SN74S182	173-22
74S188	National	DM74S188	929-15
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74S189	Cypress	CY74S189-35C	1120-5
	Lansdale	**SL74S189**	**★3675** 202-126
	National	DM74S189	202-127 1119-38
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74S194	**Lansdale**	**SL74S194**	**★3675** 206-175
	National	DM74S194	207-1
		74S194	207-2
	Rochester	74S194	207-4
	TI	SN74S194	207-6
74S195	**Lansdale**	**SL74S195**	**★3675** 206-93
	National	DM74S195	206-95
	TI	SN74S195	206-99
74S196	TI	SN74S196	182-67
74S197	TI	SN74S197	180-38
74S20	GoldStar	GD74S20	195-169
	Lansdale	**SL74S20**	**★3675** 195-171
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74S225	**Lansdale**	**SL74S225**	**★3675** 202-133
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74S240	GoldStar	GD74S240	176-154
	Lansdale	**SL74S240**	**★3675** 176-157
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	TI	SN74S240	176-159 616-28
74S241	GoldStar	GD74S241	176-155
	Lansdale	**SL74S241**	**★3675** 177-82
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74S251	GoldStar	GD74S251	205-114
	Lansdale	**SL74S251**	**★3675** 205-116
	National	DM74S251	205-118
	TI	SN74S251	205-121
74S253	**Lansdale**	**SL74S253**	**★3675** 203-135
	National	DM74S253	203-137
		74S253	203-138
	TI	SN74S253	203-140
74S257	GoldStar	GD74S257	204-65
	Lansdale	**SL74S257**	**★3675** 204-160
	National	DM74S257	204-162
		74S257	204-163
	Rochester	74S257	204-165
	TI	SN74S257	204-166
74S258	**Lansdale**	**SL74S258**	**★3675** 204-54
	National	DM74S258	204-56
		74S258	204-57
	Rochester	74S258	204-59
	TI	SN74S258	204-61
74S260	**Lansdale**	**SL74S260**	**★3675** 199-86
	Rochester	74S260	199-88
	TI	SN74S260	199-90
74S273	**Lansdale**	**SL74S273**	**★3675** 192-99
74S280	GoldStar	GD74S280	210-33
	Lansdale	**SL74S280**	**★3675** 210-35
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74S281	TI	SN74S281	173-44
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74S287	National	DM74S287	929-36
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74S289	National	DM74S289	202-116 1119-39
	Rochester	74S289	202-117
74S299	National	DM74S299	207-174
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74S30	GoldStar	GD74S30	197-208
	National	DM74S30	197-210
		74S30	197-211
	Rochester	74S30	197-213
	TI	SN74S30	197-215
74S301	**Lansdale**	**SL74S301**	**★3675** 1122-11
74S32	GoldStar	GD74S32	199-48
	Lansdale	**SL74S32**	**★3675** 199-50
	National	DM74S32	199-52
		74S32	199-53
	TI	SN74S32	199-55
74S37	**Lansdale**	**SL74S37**	**★3675** 197-29
	TI	SN74S37	197-31
74S373	**Lansdale**	**SL74S373**	**★3675** 201-141
	National	DM74S373	201-143
	TI	SN74S373	201-145
74S374	GoldStar	GD74S374	192-158
	Lansdale	**SL74S374**	**★3675** 192-160
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	TI	SN74S374	192-164
74S38	**Lansdale**	**SL74S38**	**★3675** 197-69
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74S40	**Lansdale**	**SL74S40**	**★3675** 195-209
	National	DM74S40	196-1
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	TI	SN74S40	196-5
74S47	National	DM74S47SA-45	930-39
74S472	National	DM74S472	931-2
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74S474	National	DM74S474	931-6
		DM74S474A	930-46
74S475	National	DM74S475	931-7
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74S482	TI	SN74S482	173-64
74S51	GoldStar	GD74S51	198-80
	Lansdale	**SL74S51**	**★3675** 198-82
	National	DM74S51	198-83
		74S51	198-84
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74S534	AMD	AM74S534	179-129
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74S570	National	DM74S570	930-16
		DM74S570-55	930-14
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74S571	National	DM74S571	930-18
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		DM74S571A-45	930-11
		DM74S571B	930-20
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74S572	National	DM74S572	932-33
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74S573	National	DM74S573	932-34
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74S74	GoldStar	GD74S74	191-45
	Lansdale	**SL74S74**	**★3675** 191-47
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			200-95
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74VHCT08			
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	Toshiba	**TC7400B**	**★3838**
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74000	OKI	MSM74000	1444-60
7401	**Lansdale**	**ML7401**	**★3668**
			197-88
	National	DM7401	197-94
		7401	197-96
	Rochester	7401	197-99
	TI	SN7401	197-103
7402	**Lansdale**	**ML7402**	**★3668**
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	National	DM7402	199-159
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7403	**Lansdale**	**ML7403**	**★3668**
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		7403	197-97
	Rochester	7403	197-100
	TI	SN7403	197-104
7404	**Lansdale**	**ML7404**	**★3668**
			175-26
		SL7404	175-27
	National	DM7404	175-30
		7404	175-32
	Rochester	7404	175-34
	TI	SN7404	175-36
	Toshiba	TC7404B	175-37
		TC7404UB	**★3838**
			108-161
7405	**Lansdale**	**ML7405**	**★3668**
			175-119
		SL7405	175-121
	National	DM7405	175-124
		7405	175-125
	Rochester	7405	175-127
	TI	SN7405	175-129
	Toshiba	TA7405	725-49
	Yamaha	**YM7405**	**★3865**
			844-19
7406	**Lansdale**	**ML7406**	**★3668**
			175-120
		SL7406	190-55
	National	DM7406	190-59
		7406	190-61
	Rochester	7406	190-63
	TI	SN7406	190-67
7407	**Lansdale**	**ML7407**	**★3668**
			174-82
		SL7407	190-38
	National	DM7407	190-42
		7407	190-44
	Rochester	7407	190-47
	TI	SN7407	190-51
7408	**Lansdale**	**ML7408**	**★3668**
			194-191
		SL7408	194-193
	National	DM7408	194-195
		7408	194-197
	Rochester	7408	194-199
	Sanyo	STK7408	817-35
	TI	SN7408	195-2
7409	**Lansdale**	**ML7409**	**★3668**
			195-63
	National	DM7409	195-65
		7409	195-67
	Rochester	7409	195-69
	Sanyo	STK7409	817-38
	TI	SN7409	195-71
741	AD	AD741	764-41
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		SG741	764-43
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	National	µA741AM	750-45
		µA741C	766-54
		µA741EC	750-44
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		LM741A	760-12
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	Toshiba	TLP741G	798-185
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10	**Lansdale**	**ML7410**	**★ 3668**
			196-32
		SL7410	196-34
	National	DM7410	196-37
		7410	196-39
	Rochester	7410	196-40
	TI	SN7410	196-42
100	**Lansdale**	**ML74100**	**★ 3669**
			201-86
1006	Samsung	KM741006-12	1211-9
107	**Lansdale**	**ML74107**	**★ 3669**
			193-60
	National	DM74107	193-109
	TI	SN74107	193-116
109	National	DM74109	193-70
	TI	SN74109	193-73
11	National	7411	194-113
	Rochester	7411	194-115
116	TI	SN74116	200-152
12	Rochester	7412	196-100
	TI	SN7412	196-102
120	**Lansdale**	**ML74120**	**★ 3669**
			209-23
	TI	SN74120	209-25
121	**Lansdale**	**ML74121**	**★ 3669**
			190-117
		SL74121	205-146
	National	74121	205-149
	Rochester	74121	205-150
	TI	SN74121	205-152
74122	**Lansdale**	**ML74122**	**★ 3669**
			190-120
	National	74122	205-158
	TI	SN74122	205-160
74123	**Lansdale**	**ML74123**	**★ 3669**
			190-122
		SL74123	206-2
	National	DM74123	206-3
		74123	206-5
	Rochester	74123	206-6
	TI	SN74123	206-8
74125	Lansdale	SL74125	173-153
	National	DM74125	173-155
		74125	174-1
	Rochester	74125	174-2
	TI	SN74125	174-4
74126	Lansdale	SL74126	174-30
	Rochester	74126	174-32
	TI	SN74126	174-34
74128	TI	SN74128	190-35
			617-45
7413	**Lansdale**	**ML7413**	**★ 3668**
			175-17
	Rochester	7413	209-35
	TI	SN7413	209-37
74132	**Lansdale**	**ML74132**	**★ 3669**
			197-152
	National	DM74132	209-66
		74132	209-67
	Rochester	74132	209-68
	TI	SN74132	209-70
74136	**Lansdale**	**ML74136**	**★ 3669**
			200-36
	TI	SN74136	200-38
7414	**Lansdale**	**ML7414**	**★ 3668**
			175-167
		SL7414	209-93
	National	DM7414	209-95
		7414	209-96
	Rochester	7414	209-97
	TI	SN7414	209-99
74141	Rochester	74141	609-117
74143	Rochester	74143	183-53
	TI	SN74143	183-54
74145	Lansdale	SL74145	183-89
	National	DM74145	183-91
		74145	183-92
	Rochester	74145	183-94
	TI	SN74145	183-95
74147	TI	SN74147	210-45
74148	National	DM74148	209-157
	TI	SN74148	209-165
74150	**Lansdale**	**ML74150**	**★ 3669**
			205-129
		SL74150	205-134
	National	DM74150	205-136
		74150	205-138
	Rochester	74150	205-139
	TI	SN74150	205-141
74151	**Lansdale**	**ML74151**	**★ 3669**
			205-12
	National	DM74151A	205-25
		74151	205-27
	Rochester	74151	205-28
	TI	SN74151-Cell	147-25
		SN74151A	205-30
74152	**Lansdale**	**ML74152**	**★ 3669**
			205-13
	Rochester	74152	205-69
74153	**Lansdale**	**ML74153**	**★ 3669**
			203-11
	National	DM74153	203-16
		74153	203-18
	Rochester	74153	144-118
	TI	SN74153	144-119
			203-20
74154	**Lansdale**	**ML74154**	**★ 3669**
			184-126
		SL74154	184-128
	National	DM74154	184-130
	TI	SN74154	184-137
74155	**Lansdale**	**ML74155**	**★ 3669**
			183-147
	National	DM74155	183-150
		74155	183-151
	Rochester	74155	124-166
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74155			(Cont'd)
	TI	SN74155	124-167
			183-157
74156	Rochester	74156	183-154
	TI	SN74156	183-158
74157	National	DM74157	204-73
		74157	204-77
	Rochester	74157	204-81
	TI	SN74157	204-83
74159	TI	SN74159	184-146
7416	**Lansdale**	**ML7416**	**★ 3668**
			175-111
		SL7416	190-56
	National	DM7416	190-60
		7416	190-62
	Rochester	7416	190-64
	TI	SN7416	190-68
74160	**Lansdale**	**ML74160**	**★ 3669**
			182-2
	Rochester	74160	182-68
	TI	SN74160	182-71
74161	**Lansdale**	**ML74161**	**★ 3669**
			180-131
	National	DM74161A	180-50
		74161	180-54
	Rochester	74161	180-57
	TI	SN74161	180-59
		SN74161A	118-120
		SN74161A-Cell	118-121
74162	**Lansdale**	**ML74162**	**★ 3669**
			182-3
	Rochester	74162	182-91
74163	**Lansdale**	**ML74163**	**★ 3669**
			180-132
	National	DM74163	180-89
		74163	180-90
	Rochester	74163	180-91
	TI	SN74163	180-93
		SN74163A	119-48
74164	Lansdale	SL74164	207-30
	National	DM74164	207-32
		74164	207-35
	Rochester	74164	207-37
	TI	SN74164	207-39
		SN74164-Cell	150-18
74165	**Lansdale**	**ML74165**	**★ 3669**
			207-62
	National	74165	207-83
	Rochester	74165	207-84
	TI	SN74165	149-170
			207-86
74166	Lansdale	SL74166	207-99
	National	DM74166	207-100
	Rochester	74166	207-102
	TI	SN74166	150-64
			207-104
74167	**Lansdale**	**ML74167**	**★ 3669**
			182-6
	Rochester	74167	209-7
	TI	SN74167	209-9
7417	**Lansdale**	**ML7417**	**★ 3668**
			174-67
		SL7417	190-39
	National	DM7417	190-43
		7417	190-45
	Rochester	7417	190-48
	TI	SN7417	190-52
74170	National	74170	202-81
			1119-13
	TI	SN74170	202-83
			1119-21
74172	TI	SN74172	202-108
			1119-25
74173	National	DM74173	191-132
		74173	191-135
	Rochester	74173	191-136
	TI	SN74173	191-138
		SN74173-Cell	130-24
74174	**Lansdale**	**ML74174**	**★ 3669**
			191-152
		SL74174	191-155
	National	DM74174	191-157
		74174	191-159
	Rochester	74174	191-160
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74174			(Cont'd)
	TI	SN74174	130-90
			191-162
74175	**Lansdale**	**ML74175**	**★ 3669**
			191-64
		SL74175	191-67
	National	DM74175	191-69
		74175	191-71
	Rochester	74175	191-72
	TI	SN74175	129-144
			191-74
74176	**Lansdale**	**ML74176**	**★ 3669**
			182-19
	Rochester	74176	182-55
	TI	SN74176	182-58
74177	**Lansdale**	**ML74177**	**★ 3669**
			181-16
	Rochester	74177	180-23
	TI	SN74177	180-27
74179	Rochester	74179	206-130
74180	**Lansdale**	**ML74180**	**★ 3669**
			173-120
	National	DM74180	210-9
		74180	210-10
	Rochester	74180	210-11
	TI	SN74180	210-13
74181	**Lansdale**	**ML74181**	**★ 3669**
			173-58
	Rochester	74181	172-136
74182	**Lansdale**	**ML74182**	**★ 3669**
			173-24
	Rochester	74182	173-3
74184	National	DM74184	209-20
	Rochester	74184	209-21
74185	National	DM74185A	209-17
	Rochester	74185	209-19
74190	**Lansdale**	**ML74190**	**★ 3669**
			181-170
	Rochester	74190	183-10
	TI	SN74190	183-12
74191	**Lansdale**	**ML74191**	**★ 3669**
			180-127
	National	DM74191	181-92
		74191	181-94
	Rochester	74191	181-95
	TI	SN74191	120-109
			181-97
74192	**Lansdale**	**ML74192**	**★ 3669**
			181-171
		SL74192	182-172
	Rochester	74192	182-174
	TI	SN74192	182-176
74193	**Lansdale**	**ML74193**	**★ 3669**
			180-128
		SL74193	181-124
	National	DM74193	181-126
	Rochester	74193	181-130
	TI	SN74193	120-110
			181-132
74194	**Lansdale**	**ML74194**	**★ 3669**
			206-103
		SL74194	206-151
	National	DM74194	206-153
	Rochester	74194	206-154
	TI	SN74194	206-155
		SN74194A	149-32
74195	**Lansdale**	**ML74195**	**★ 3669**
			206-101
	Rochester	74195	206-78
	TI	SN74195	206-80
		SN74195A-Cell	149-88
74196	**Lansdale**	**ML74196**	**★ 3669**
			182-20
	Rochester	74196	182-23
	TI	SN74196	182-59
74197	**Lansdale**	**ML74197**	**★ 3669**
			181-13
	National	74197	180-22
	Rochester	74197	180-24
	TI	SN74197	180-28
74198	Rochester	74198	207-69
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74199	Lansdale	SL74199	207-74
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7420	**Lansdale**	**ML7420**	**★ 3668**
			195-102
		SL7420	195-104
	National	DM7420	195-106
		7420	195-108
	Rochester	7420	195-110
	TI	SN7420	195-112
7421	Rochester	7421	194-75
7422	Rochester	7422	196-8
	TI	SN7422	196-10
74221	TI	SN74221	205-170
7423	**Lansdale**	**ML7423**	**★ 3668**
			199-62
	Rochester	7423	199-72
	TI	SN7423	199-74
7425	**Lansdale**	**ML7425**	**★ 3668**
			199-63
		SL7425	199-65
	National	7425	199-67
	Rochester	7425	199-68
	TI	SN7425	199-70
74251	Rochester	74251	205-83
	TI	SN74251	147-94
			205-85
74259	TI	SN74259	142-99
			201-63
7426	**Lansdale**	**ML7426**	**★ 3668**
			196-123
		SL7426	190-26
	National	DM7426	190-27
	Rochester	7426	190-28
	TI	SN7426	190-30
74265	Rochester	74265	209-58
	TI	SN74265	209-60
7427	**Lansdale**	**ML7427**	**★ 3668**
			199-92
	National	DM7427	199-93
		7427	199-94
	Rochester	7427	199-96
	TI	SN7427	199-98
74273	Rochester	74273	192-75
	TI	SN74273	192-76
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74276	Rochester	74276	194-72
	TI	SN74276	194-73
74278	TI	SN74278	209-128
74279	National	74279	201-9
	Rochester	74279	201-10
	TI	SN74279	201-12
7428	TI	SN7428	199-166
74283	National	74283	173-72
	TI	SN74283	102-36
			173-76
74290	**Lansdale**	**ML74290**	**★ 3669**
			182-15
74293	**Lansdale**	**ML74293**	**★ 3669**
			181-10
	Rochester	74293	180-158
	TI	SN74293	180-162
74298	**Lansdale**	**ML74298**	**★ 3669**
			206-51
	Rochester	74298	204-168
	TI	SN74298	146-103
			204-170
743	**AD**	**AD743**	**★ 3512**
			★ 3528
			749-25
		AD743A	**★ 3512**
			★ 3528
			751-5
		AD743B	**★ 3512**
			★ 3528
			746-46
		AD743I	**★ 3512**
			★ 3528
			752-39
		AD743K	**★ 3512**
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		AD743S	**★ 3512**
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743	**AD**		**(Cont'd)**
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	Maxim	MAX743C	820-107
		MAX743M	820-108
7430	**Lansdale**	**ML7430**	**★ 3668**
			197-157
	National	7430	197-160
	Rochester	7430	197-162
	TI	SN7430	197-164
7432	Lansdale	SL7432	198-175
	National	DM7432	198-177
		7432	198-179
	Rochester	7432	198-181
	TI	SN7432	199-2
7433	TI	SN7433	199-144
74365	National	DM74365	175-174
	TI	SN74365A	174-107
74366	TI	SN74366A	175-180
74367	Lansdale	SL74367A	174-97
	National	DM74367	174-100
			190-78
	TI	SN74367A	174-108
			190-81
74368	National	DM74368	175-175
	TI	SN74368A	175-181
7437	**Lansdale**	**ML7437**	**★ 3668**
			196-205
		SL7437	196-208
	National	DM7437	196-210
		7437	197-2
	Rochester	7437	197-4
	TI	SN7437	197-6
74376	TI	SN74376	194-71
7438	**Lansdale**	**ML7438**	**★ 3668**
			196-206
		SL7438	197-35
	National	DM7438	197-38
		7438	197-39
	Rochester	7438	197-43
	TI	SN7438	197-45
7439	Lansdale	SL7439	197-36
	National	7439	197-40
	TI	SN7439	197-46
74390	Rochester	74390	182-115
	TI	SN74390	182-117
74393	TI	SN74393	120-48
			180-138
744	**AD**	**AD744**	**★ 3512**
			★ 3528
			746-42
		AD744A	**★ 3512**
			★ 3528
			752-30
		AD744B	**★ 3512**
			★ 3528
			749-16
		AD744C	**★ 3512**
			★ 3528
			746-45
		AD744J	**★ 3512**
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		AD744K	**★ 3512**
			★ 3528
			749-17
		AD744S	**★ 3512**
			★ 3528
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		AD744T	**★ 3512**
			★ 3528
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7440	**Lansdale**	**ML7440**	**★ 3668**
			195-180
		SL7440	195-182
	National	7440	195-184
	Rochester	7440	195-186
	Sanyo	LC7440	727-40
	TI	SN7440	195-188
7442	**Lansdale**	**ML7442**	**★ 3668**
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	National	DM7442	183-102
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7443	**Lansdale**	**ML7443**	**★ 3668**
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	Rochester	7443	183-66
7444	**Lansdale**	**ML7444**	**★ 3668**
			183-68
	Rochester	7444	183-64
7445	GoldStar	GL7445	636-100
	Lansdale	SL7445	183-81
	National	DM7445	183-83
		7445	183-84
	Rochester	7445	183-85
	TI	SN7445	183-87
7446	National	DM7446A	609-64
	Rochester	7446	609-76
	TI	SN7446A	609-87
7447	National	DM7447A	609-65
		7447	609-74
	TI	SN7447A	609-88
7448	Rochester	7448	609-52
745	**AD**	**AD745A**	**★ 3512**
			★ 3528
			754-35
		AD745B	**★ 3512**
			★ 3528
			753-50
		AD745J	**★ 3512**
			★ 3528
			754-36
		AD745K	**★ 3512**
			★ 3528
			753-51
		AD745S	**★ 3512**
			★ 3528
			758-11
		AD745S/883B	
			★ 3512
			★ 3528
			752-42
	Burr-Brown	**PWS745**	**★ 3464**
			823-117
7450	**Lansdale**	**ML7450**	**★ 3668**
			198-44
	MicroNet	**MN7450**	**★ 3691**
			424-103
	National	7450	198-88
	Rochester	7450	198-90
	TI	SN7450	198-92
7451	**Lansdale**	**ML7451**	**★ 3668**
			198-45
		SL7451	198-46
	MicroNet	**MN7451**	**★ 3691**
			424-104
	National	7451	198-47
	Sanyo	LA7451	716-113
	SGS-Thomson		
		LS7451	198-75
	TI	SN7451	198-49
74517	Lansdale	SL74517	204-63
7453	**Lansdale**	**ML7453**	**★ 3668**
			198-134
	Rochester	7453	198-141
7454	**Lansdale**	**ML7454**	**★ 3668**
			198-135
	Rochester	7454	198-138
	Sanyo	LA7454W	716-106
	TI	SN7454	198-140
7456	Sanyo	LA7456M	729-72
7458	Sanyo	STK7458	815-7
746	**AD**	**AD746**	**★ 3512**
			★ 3528
			774-35
		AD746A	**★ 3512**
			★ 3528
			777-28
		AD746B	**★ 3512**
			★ 3528
			775-36
		AD746J	**★ 3512**
			★ 3528
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		AD746S	**★ 3512**
			★ 3528
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7460	Rochester	7460	198-99
7464	Honeywell	HC7464/1SHNC	
			1036-8
	S-MOS	SMC7464	367-21
7468	S-MOS	SMC7468	367-22
747	**ECI Semi**	**747**	**★ 3604**
			1458-8
	National	μA747AM	779-30
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7543	**AD**	**AD7543A**	★ **3517**
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		AD7543B	★ **3517**
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		AD7543G	587-19
		AD7543J	★ **3517**
			593-39
		AD7543K	★ **3517**
			587-3
		AD7543S	★ **3517**
			594-7
		AD7543T	★ **3517**
			587-20
		PM7543A	★ **3517**
			586-3
		PM7543B	★ **3517**
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		PM7543E	★ **3517**
			586-5
		PM7543F	★ **3517**
			586-6
		PM7543G	★ **3517**
			586-7
		PM7543H	★ **3517**
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		MX7543GB	587-11
		MX7543GK	587-12
		MX7543GT	587-13
		MX7543J	593-44
		MX7543K	587-14
		MX7543S	593-45
		MX7543T	587-15
	MicroPwr	MP7543A	596-4
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75436	TI	SN75436	639-168
75437	TI	SN75437A	639-169
75438	TI	SN75438	639-170
75440	TI	SN75440	639-171
754410	TI	SN754410	637-37
754411	TI	SN754411	637-38
75446	Rochester	75446	639-25
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75447	TI	SN75447	639-38
75448	TI	SN75448	639-69
75449	TI	SN75449	639-55
7545	**AD**	**AD7545A**	★ **3517**
			595-18
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		AD7545AK	★ **3517**
			592-43
		AD7545AL	★ **3517**
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		AD7545AT	★ **3517**
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		MX7545AK	585-23
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5451	Linfinity Micro	SG75451B	639-5
	National	DS75451	639-11
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5452	Linfinity Micro	SG75452B	639-83
	National	DS75452	639-33
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5453	Linfinity Micro	SG75453B	639-94
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5454	Linfinity Micro	SG75454B	639-88
	National	DS75454	639-50
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5460	Linfinity Micro	SG75460	639-6
5461	Linfinity Micro	SG75461	639-7
	National	DS75461	639-12
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5462	Linfinity Micro	SG75462	639-30
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	National	DS75464	639-51
75465	TI	SN75465	638-59
75466	TI	SN75466	638-60
75467	TI	SN75467	638-61
75468	TI	SN75468	638-57
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75472	Linfinity Micro	SG75472	639-84
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	TI	SN75472	639-41
75473	Linfinity Micro	SG75473	639-95
	Rochester	75473	639-97
	TI	SN75473	639-72
75474	Linfinity Micro	SG75474	639-89
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75476	TI	SN75476	639-22
75477	TI	SN75477	639-44
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75479	TI	SN75479	639-59
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75491	National	DS75491	610-28
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75501	TI	SN75501E	611-5
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75517	NEC	μPD75517	353-16
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75564	TI	SN75564A	606-101
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7578	**AD**	**AD7578K**	★ **3510** 548-33
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7579	**AD**	**AD7579**	★ **3510** 530-32
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7580	**AD**	**AD7580**	★ **3510** 530-33
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7591	**AD**	**AD7591DIB**	★ **3534** 503-85
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7592	**AD**	**AD7592DIB**	★ **3534** 503-1
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7612	Harris	ICL7612A	755-57
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	Maxim	ICL7612AC	756-3
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		ICL7612BC	762-54
		ICL7612BM	762-55
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7613	MicroPwr	MP7613A	595-11 ¶ 3337-20
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7614	Maxim	ICL7614AC	755-58
		ICL7614AM	755-59
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		ICL7614BM	762-49
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	MicroPwr	MP7614J	599-27
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7615	Western	WD7615	423-86
7616	Maxim	ICL7616AC	756-5
		ICL7616AM	756-6
		ICL7616BC	762-52
		ICL7616BM	762-53
		ICL7616C	771-8
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	MicroPwr	MP7616BA	603-34
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76161	**Lansdale**	**HL76161-2**	★ **3664** 936-6
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		ICL7621AM	777-59
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		ICL7621BM	781-2
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7624	Maxim	MAX7624C	567-33
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7625	Western	WD7625LV	423-28
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7636	MicroPwr	MP7636AJ	603-15
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7640	**Lansdale**	**HL7640-2**	★ **3664** 932-11
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7643	**Lansdale**	**HL7643-2**	★ **3664**
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		MS76542-30	★ **3697**
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8F8128C55M6	EDI	EDI8F8128C55M6C	1240-23
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* Indicates additional data is provided on the page noted.

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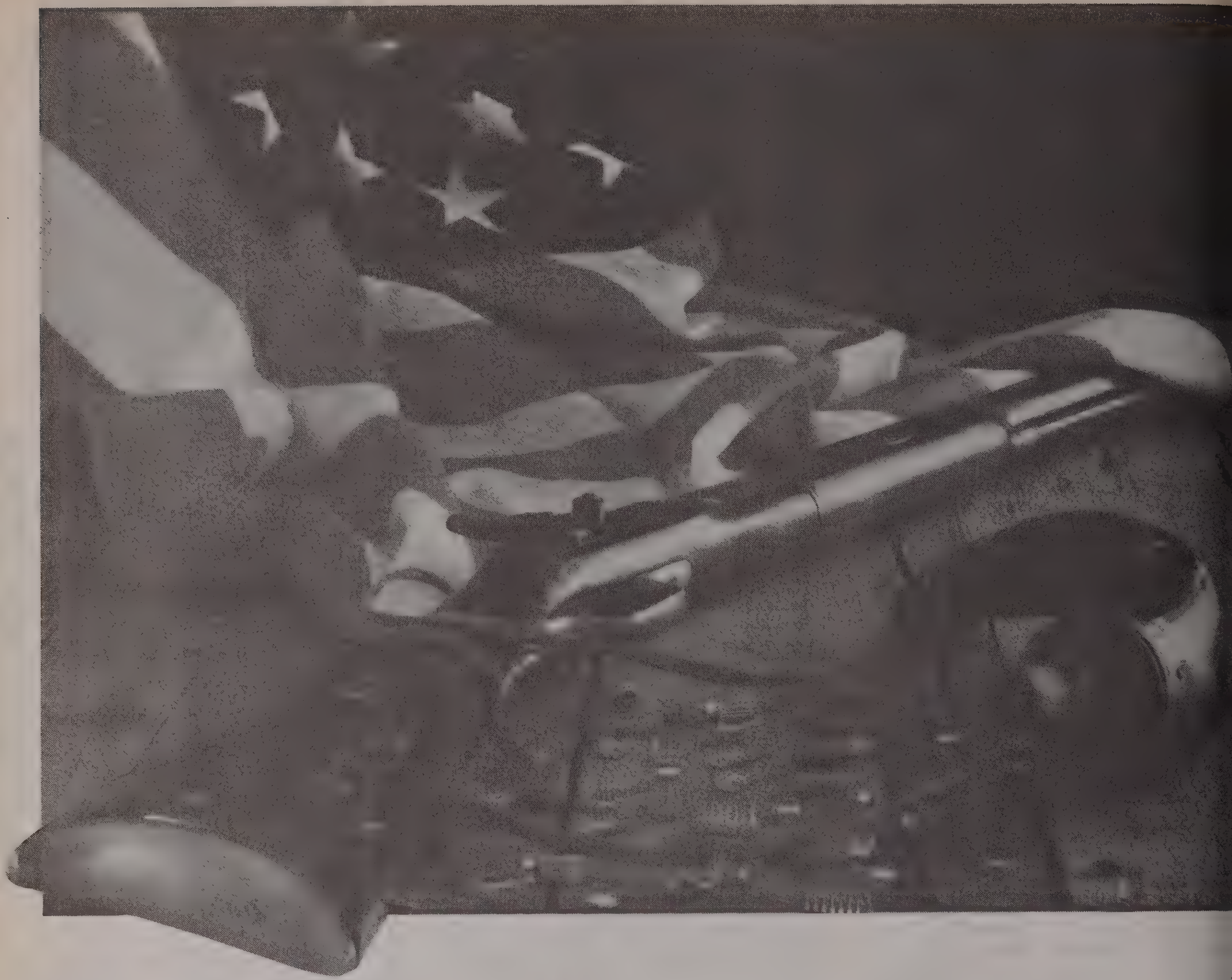

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See pages 3664 to 3678 in Volume

ALTERNATE SOURCE DIRECTORY

The Alternate Source Directory is an industry-wide ross reference of devices that manufacturers claim are unctional equivalents to IC's made by other firms.

The second column of this Alternate Source Directory shows devices that are replacements for hose in the first column. Devices listed in **BOLD FACE** type have technical data in the Master Selection Guides. This information begins on the page listed to he right of the **BOLD FACE** part numbers. Products preceded by a ◆ have been discontinued by the manuacturer. This section does include discontinued devices hat are not listed in the Master Selection Guides; in order to maintain this list within some reasonable bounds, the A and B suffixes indicating improved verions generally have been dropped.

One of the difficulties with any cross reference is hat devices meant to be alternates do not necessarily perform the same in all circuits. Thus, it will be necesary for you to check specifications, or even check ciruit performance before deciding which alternates are ight for you. But if you do not find the devices you eed here, it may be possible to find additional alterates by locating the device in the Master Selection Guides. Particularly for digital circuits, the other prodcts grouped with it will normally offer similar or idenical performance.

The Alternate Source Directory is also available on floppy disk or compact disk.

ICMASD (IC Master Alternate Source Directory) is the MS DOS PC-based version of the directory on floppy disk.

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Actel

Manufacturer Device	Replacement Source	Device	IC Master Page
ACT1010	TI	TPC1010	
ACT1020	TI	TPC1020	
ACT1225	ILSI	CME1204	

Adaptec

Manufacturer Device	Replacement Source	Device	IC Master Page
AIC6225	MicroLinear	ML4025	

Advanced Analog

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC5210	**MicroNet**	**MN5210**	(3690)
ADC5212	**MicroNet**	**MN5212**	(3690)
ADC5245	MicroNet	MN5245	
ADC574	Harris	HI574	
ADC574A	MicroNet	MN574A	
ADC674	Harris	HI674	
ADC84	MicroNet	ADC84	
ADC85	MicroNet	ADC85	
ADC87	**MicroNet**	**ADC87**	(3690)
AFL2805	Interpoint	MFLHP2805	
AFM704	Interpoint	FM704	
AFW2805	Interpoint	MFW2805	
AFW2812	Interpoint	MFW2812	
AFW2815	Interpoint	MFW2815	
AHE2805	Interpoint	MHE2805	
		MHO2805	
AHE2815	Interpoint	MHE2815	
		MHO2815	
AHF2805	Interpoint	MHF2805	
AHF2812	Interpoint	MHF2812	
AHF2815	Interpoint	MHF2815	
ALP2805	Interpoint	MLP2805	
ALP2812	Interpoint	MLP2812	
ALP2815	Interpoint	MLP2815	
ASF461	Interpoint	MSF461	
ASR2805	Interpoint	MSR2805	
ASR2812	Interpoint	MSR2812	
ASR2815	Interpoint	MSR2815	
ATO2812	Interpoint	MTO2812	
ATO2815	Interpoint	MHO28515	
		MTO2815	
ATR2805	Interpoint	MTR2805	
ATR2812	Interpoint	MTR2812	
ATR2815	Interpoint	MTR28515	
ATW2805	Interpoint	MTW2805	
ATW2815	Interpoint	MTW2815	
DACHK	MicroNet	DACHK	
DAC88	**MicroNet**	**DAC88**	(3692)
SH346	**MicroNet**	**MN346**	(3693)
SH347	**MicroNet**	**MN347**	(3693)
SH376	**MicroNet**	**MN376**	(3693)

Advanced Linear Devices

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ALD1701	TI	TLC271	
ALD1702	TI	TLC271	
ALD1703	TI	TLC271	

Advanced Micro Devices

Manufacturer Device	Replacement Source	Device	IC Master Page
µA741	Raytheon	RC741	
AmPAL22V10	ATMEL	AT22V10	
AD680	GEC Plessey	SP9680	
AD685	GEC Plessey	SP9685	
AD687	GEC Plessey	SP9687	
AD9768	GEC Plessey	SP9768	
AMC001FLKA	**Intel**	**IMC001FLKA**	(3659)
AMC002FLKA	**Intel**	**IMC002FLKA**	(3658)
AMC004FLKA	**Intel**	**IMC004FLKA**	(3657)
AMDAC08	Raytheon	DAC08	
AMD99C164	Krueger	6287-35	
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	Lattice	GAL16V8	
	TI	TIBPAL16L8	
AMPAL16R4	Cypress	CYPALC16R4	
	Lattice	GAL16V8	
	TI	TIBPAL16R4	
AMPAL16R6	Cypress	CYPALC16R6	
	Lattice	GAL16V8	
	TI	TIBPAL16R6	
AMPAL16R8	Cypress	CYPALC16R8	
	Lattice	GAL16V8	
	TI	TIBPAL16R8	
AMPAL18P8	Lattice	GAL16V8	
		GAL18V10	
	National	DMPAL10H8	
		DMPAL10L8	
		DMPAL12H6	
		DMPAL12L6	
		DMPAL14H4	
		DMPAL14L4	
		DMPAL16H2	
		DMPAL16L2	
	Philips	AMPAL18P8	
		PLHS18P8	
AMPAL20L10	Lattice	GAL22V10	
	TI	TIBPAL22VP10	
		TIBPAL22V10	
♦ AMPAL20L10	National	DMPAL20L10	
	TI	TIBPAL20L10	
AMPAL20L8	TI	TIBPAL20L8	
AMPAL20RP10	Lattice	GAL22V10	
AMPAL20RP4	Lattice	GAL20V8	
AMPAL20RP6	Lattice	GAL20V8	
AMPAL20RP8	Lattice	GAL20V8	
AMPAL20R4	TI	TIBPAL20R4	
AMPAL20R6	TI	TIBPAL20R6	
AMPAL20R8	TI	TIBPAL20R8	
AMPAL22P10	National	DMPAL12L10	
		DMPAL14L8	
		DMPAL16L6	
		DMPAL18L4	
		DMPAL20L2	
AMPAL22V10	Cypress	CYPALC22V10	
	Intel	PLD22V10	
	Lattice	GAL22V10	
	TI	TIBPAL22V10	
AM101	Motorola	LM101	
AM107	Motorola	LM111	
		MC1741	
AM111	Motorola	LM111	
		MC1741	
AM1402	**MSI/Scorpion**	**AM1402**	(3598)
AM1403	**MSI/Scorpion**	**AM1403**	(3598)
AM1404	**MSI/Scorpion**	**AM1404**	(3598)
AM1408	AD	DAC1408	
	GEC Plessey	ZN429	
AM148	Raytheon	LM148	
AM1508	AD	DAC1508	
	GEC Plessey	ZN429	
AM1702	MSI/Scorpion	AM1702	
AM20R6-10	Philips	PLUS20R6D	
AM201	Motorola	LM201	
AM2018	Xilinx	XC2018	
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AM2075	**Siemens**	**PEB2075**	(3770)
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AM2095	Siemens	PEB2095	
AM20950	Siemens	PEB20950	
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		2141	
AM21L47	Cypress	CY7C147	
AM21L48	Cypress	CY21L48	
	Fujitsu	MBM2148	
AM21L49	Cypress	CY21L49	
	Fujitsu	MBM2149	
AM211	Motorola	LM211	
		MC1741	
AM2110	Siemens	PEB2110	
AM2130	Cypress	CY7C130	
	IDT	IDT7130	
AM2140	Cypress	CY7C140	
	IDT	IDT7140	
AM2147	Cypress	CY2147	
		CY7C147	
	Fujitsu	MBM2147	
	Intel	D2147	
	Krueger	**2147-35**	(3663)
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	Motorola	MCM6147	
	NEC	µPD2147	
AM2148	Cypress	CY2148	
		CY7C148	
	Hitachi	HM6148	
	Intel	D2148	
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	National	NMC2148	
	SGS-Thomson	IMS1223	
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	Fujitsu	MBM2149	
	Intel	D2149	
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	SGS-Thomson	IMS1223	
AM2160	Siemens	PEB2160	
AM2167	Cypress	CY7C167	
	Fujitsu	MB8167	
	Hitachi	HM6267	
	IDT	IDT6167	
	Krueger	2167-35	
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	LogicDev	L7C167	
	Motorola	MCM2167	
	NEC	µPD2167	
AM2167			(Con
	SGS-Thomson	IMS1400	
		IMS1403	
	Sharp	LH5167	
♦ AM2167	Rochester	61CD16	
AM2168	Cypress	CY7C168	
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	LogicDev	L7C168	
	Motorola	MCM6168	
	SGS-Thomson	IMS1420	
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		MK41H68	
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	IDT	IDT6168	
	SGS-Thomson	IMS1421	
♦ AM25LS22	TI	SN74LS322	
AM25LS2518	Rochester	25LS2518	
AM25LS2520	Rochester	25LS2520	
♦ AM25LS2521	TI	SN74LS688	
AM25LS2569	Rochester	25LS2569	
AM25L04	Rochester	25L04	
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		93S43	
♦ AM25S09	TI	SN74S399	
♦ AM25S10	Philips	N74S350	
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AM25S18	Rochester	25S18	
AM25S557	LogicDev	LMU557	
AM25S558	LogicDev	LMU558	
♦ AM2501	Lansdale	AL2501	
AM2502	GEC Plessey	ZN447	
AM2503	GEC Plessey	ZN447	
♦ AM2504	Rochester	7604	
		8604	
♦ AM2506	Lansdale	AL2506	
AM26LS30	Motorola	AM26LS30	
	National	DS3691	
	Philips	AM26LS30	
AM26LS31	Motorola	AM26LS31	
		MC26LS31	
	National	µA26LS31	
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	Philips	AM26LS31	
	TI	AM26LS31	
AM26LS32	Motorola	AM26LS32	
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	National	µA26LS32	
		DS26LS32	
		DS26LS32A	
	Philips	AM26LS32	
	TI	AM26LS32	
AM26LS33	Motorola	MC3486	
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	Philips	AM26LS33	
	TI	AM26LS33	
♦ AM26S02	National	96L02	
AM26S10	Motorola	MC26S10	
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AM26S11	National	DS26S11	
♦ AM26S11	Motorola	MC26S11	
	National	DS26S11	
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AM26S12	National	DS8838	
♦ AM2602	Lansdale	ML9602	
AM27C010	ATMEL	AT27C010	
	Catalyst Semi	CAT27010	
	Hitachi	HN27C101	
	Intel	D27C010	
	Krueger	27C010	
	Mitsubishi	M5M27C101	
	National	NMC27C010	
	NEC	µPD27C1001	
	OKI	MSM271000	
	Philips	27C010	
	SGS-Thomson	M27C1001	
	TI	SMJ27C010	
		TMS27C010	
		TMS27C010A	
		TMS27PC010A	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

dvanced Micro Devices (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M27C010			(Cont'd)
	Toshiba	TC541000	
		TC571000	
	Waferscale	WS27C010	
M27C020	Intel	D27C020	
	Mitsubishi	M5M27C201	
	National	NMC27C020	
	NEC	µPD27C2001	
	SGS-Thomson	M27C2001	
	TI	TMS27C020	
M27C040	ATMEL	AT27C040	
	Intel	27C040	
	Mitsubishi	M5M27C401	
	National	NMC27C040	
	SGS-Thomson	M27C4001	
	TI	TMS27C040	
		TMS27PC040	
	Toshiba	TC544000	
		TC574000	
		TC574000D	
M27C04096	TI	TMS27C240	
		TMS27PC240	
M27C100	Hitachi	HN27C301	
	Mitsubishi	M5M27C100	
	NEC	µPD27C1000	
	Toshiba	TC541001	
		TC571001	
M27C1024	ATMEL	AT27C1024	
	Catalyst Semi	CAT27C210	
	Hitachi	HN27C1024	
	Intel	D27C210	
	Krueger	27C210	
	Mitsubishi	M5L27C102	
	National	NMC27C1024	
	NEC	µPD27C1024	
	OKI	MSM27C1024	
		MSM271024	
	Philips	27C210	
	SGS-Thomson	M27C1024	
	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC57H1024	
		TC571024	
	Waferscale	WS27C210	
M27C1024-200	Philips	27C210-20	
M27C1024-200DC	Philips	27C210FA	
M27C128	ATMEL	AT27C128	
	Intel	D27128A	
	Krueger	27C128-200	
		27C128-250	
	MicronSemi	27C128	
	National	NMC27C128	
	SGS-Thomson	M27128	
	TI	SMJ27C128	
		TMS27C128	
		TMS27PC128	
	Waferscale	WS27C128	
M27C191	Cypress	CY7C292	
	Waferscale	WS57C291	
M27C2048	Intel	27C220	
	Mitsubishi	M5M27C202	
	TI	TMS27C020	
M27C256	ATMEL	AT27HC256	
	Catalyst Semi	CAT27HC256	
	Cypress	CY7C274	
	Fujitsu	MBM27C256	
	Hitachi	HN27C256	
	Intel	27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	MicronSemi	27C256	
	Mitsubishi	M5M27C256	
	National	NMC27C256	
	NEC	µPD27C256	
	OKI	MSM27C256	
	Philips	27C256	
	SGS-Thomson	TS27C256	
	TI	TMS27C256	
		TMS27PC256	
			(Continued)
AM27C256			(Cont'd)
	Toshiba	TC27C256	
		TC54256	
		TC57256	
	Waferscale	WS27C256	
AM27C291	Cypress	CY7C291	
	Waferscale	WS57C291	
AM27C400	Intel	27C400	
	Toshiba	TC574200	
AM27C4096	Hitachi	HN27C4096	
	Mitsubishi	M5M27C402	
	SGS-Thomson	M27C4002	
	TI	TMS27C240	
	Toshiba	TC574096	
AM27C49	Cypress	CY7C264	
	Fujitsu	MB71C44	
		MB7144	
	Microchip	27HC641	
	Philips	27HC641	
	Waferscale	WS57C49	
AM27C512	ATMEL	AT27C512	
	Cypress	CY7C286	
	Intel	D27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	MicronSemi	27C512	
	Mitsubishi	M5M27C512	
	National	NMC27C512	
	NEC	µPD27C512	
	Philips	27C512	
	SGS-Thomson	M27C512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC54512	
		TC57512	
		TMM27512	
	Waferscale	WS27C512	
AM27C512-15LI	Philips	27C5121-15A	
AM27C64	ATMEL	AT27HC64	
	Cypress	CY7C266	
	Intel	D27C64	
		P27C64	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
	MicronSemi	27C64	
	National	NMC27C64	
	Philips	27C64	
	SGS-Thomson	ST27C64	
	TI	TMS27C128	
	Waferscale	WS27C64	
AM27C64-150	Philips	27C64-15	
AM27H010	Cypress	CY7B201	
	Toshiba	TC57H1000	
		TC57H1001	
AM27H256	Cypress	CY7C274	
AM27LS00	Rochester	27LS00	
AM27LS00A	Rochester	27LS00A	
AM27LS03	Cypress	CY27LS03	
	National	DM74S189	
AM27LS07	Cypress	CY27S07	
	National	DM75S07	
◆ AM27LS19	Rochester	18S030	
AM27LS191	Cypress	CY7C292	
AM27LS291	Cypress	CY7C291	
AM27LV010	ATMEL	AT27LV010	
AM27LV512	ATMEL	AT27LV512	
AM27PS181	Cypress	CY7C282	
AM27PS191	Cypress	CY7C292	
	Philips	N82S191	
AM27PS281	Cypress	CY7C281	
AM27PS291	Cypress	CY7C291	
		CY7C293	
	Harris	HM76161	
AM27PS291A	Cypress	CY7C293	
AM27PS43	Waferscale	WS57C43	
AM27S02	National	DM74S289	
		N3101	
	Philips	N3101	
AM27S03	Cypress	CY27S03	
		CY27S03A	
	National	DM74S189	
	Philips	N74F189	
AM27S03A	Cypress	CY27S03A	
			(Continued)
AM27S07	Cypress	CY27S07	
	National	DM85S07	
AM27S07A	Cypress	CY27S07	
		CY27S07A	
◆ AM27S08	Lansdale	HL7602	
AM27S12	Fujitsu	MB7115	
◆ AM27S12	Lansdale	HL7620	
AM27S13	Fujitsu	MB7116	
	National	DM74S571	
	Philips	N82S131	
◆ AM27S13	Lansdale	HL7621	
AM27S16	Philips	82S131	
AM27S18	Fujitsu	MB7111	
	Philips	82S23	
AM27S181	Cypress	CY7C282	
	Fujitsu	MB7132	
	National	DM87S181	
		93Z451	
	Philips	N82S181	
		82S181	
◆ AM27S181	Lansdale	HL7681	
	Rochester	93Z451	
AM27S181A	Cypress	CY7C282	
AM27S185	Fujitsu	MB7128	
	National	DM87S185	
	Philips	N82S185	
		82S185	
◆ AM27S185	Lansdale	HL7685	
AM27S19	Fujitsu	MB7112	
	National	DM74S288	
	Philips	N82S123	
		82S123	
◆ AM27S19	Lansdale	HL7603	
AM27S191	Cypress	CY7C292	
	Fujitsu	MB71A38	
		MB7138	
	National	DM87S191	
	Philips	N82S191	
		N82S191A	
		82S191	
	Waferscale	WS57C191	
◆ AM27S191	Lansdale	HL76161	
AM27S191A	Cypress	CY7C292A	
	Philips	N82S191C	
AM27S1912	Cypress	CY7C292A	
AM27S20	Fujitsu	MB7113	
	Philips	82S126	
◆ AM27S20	Lansdale	HL7610	
AM27S21	Fujitsu	MB7114	
	National	DM74S287	
	Philips	N82S129	
		82S129	
◆ AM27S21	Lansdale	HL7611	
AM27S25	Cypress	CY7C225	
	Fujitsu	MB7226	
	National	DM87SR25	
		DM87SR476	
AM27S27	National	DM87SR27	
AM27S28	Fujitsu	MB7123	
AM27S281	Cypress	CY7C281	
	Fujitsu	MB7132	
	National	DM87S281	
	Philips	N82S181	
AM27S281A	Cypress	CY7C281	
AM27S29	Fujitsu	MB7124	
	National	DM74S472	
	Philips	N82S147	
		82S147	
◆ AM27S29	Lansdale	HL7649	
AM27S291	Cypress	CY7C291	
		CY7C291A	
	Fujitsu	MB7138	
	National	DM87S291	
	Philips	N82S191	
		82S191	
	Waferscale	WS57C291	
AM27S291A	Cypress	CY7C291A	
◆ AM27S30	Lansdale	HL7640	
AM27S31	National	DM74S474	
	Philips	N82S115	
		N82S141	
		82S141	
◆ AM27S31	Lansdale	HL7641	
AM27S32	Fujitsu	MB7121	
◆ AM27S32	Lansdale	HL7642	
AM27S33	Fujitsu	MB7122	
	National	DM74S573	
	Philips	N82S137	
		82S137	
◆ AM27S33	Lansdale	HL7643	
AM27S33A	Philips	82S137A	
AM27S35	Cypress	CY7C235	
	Fujitsu	MB7232	
	Philips	N82HS187	
AM27S37	Fujitsu	MB7232	
	National	DM87SR181	
	Philips	N82HS189	
AM27S41	Fujitsu	MB7152	
	National	DM87S195	
	Philips	N82HS195	
		82HS195	
◆ AM27S41	Lansdale	HL76165	
AM27S43	Fujitsu	MB7142	
	National	DM87S321	
	Philips	N82HS321	
		82HS321	
	Waferscale	WS57C43	
◆ AM27S43	Lansdale	HL76321	
AM27S43A	Waferscale	WS57C43	
AM27S45	Cypress	CY7C245	
	Fujitsu	MB7238	
	Philips	N82HS197	
	Waferscale	WS57C45	
AM27S45A	Cypress	CY7C245A	
AM27S46	Microchip	27HC641	
AM27S47	Fujitsu	MB7238	
	Philips	N82HS199	
AM27S49	Cypress	CY7C263	
		CY7C264	
	Fujitsu	MB71C44	
		MB7144	
	Microchip	27HC641	
	National	93Z565	
	Philips	N82HS641	
		82HS641	
	Waferscale	WS57C49	
◆ AM27S49	Rochester	93Z665	
AM27S49A	Cypress	CY7C264	
AM27S51	Fujitsu	MB71C46	
	Waferscale	WS57C51	
AM27S51A	Waferscale	WS57C51	
AM27S81	Philips	82S181	
AM27010	Waferscale	WS27C010	
AM27128	Catalyst Semi	CAT27128	
	Intel	27128	
	Krueger	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	Microchip	27C128	
	OKI	MSM27128	
	SEEQ	27128	
	TI	SMJ27C128	
AM27128-20BXA	TI	SMJ27C128-20	
AM27128-25BXA	TI	SMJ27C128-25	
AM27128-30BXA	TI	SMJ27C128-30	
AM2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
AM27256	Catalyst Semi	CAT27256	
	Krueger	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	Microchip	27C256	
	OKI	MSM27256	
	TI	SMJ27C256	
		TMS27C256	
		TMS27PC256	
AM27256-20BXA	TI	SMJ27C256-20	
AM2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
AM2732A	**Krueger**	**2732A-250**	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
AM27512	Catalyst Semi	CAT27512	
	Krueger	**27512-200**	**(3663)**
		27512-250	**(3663)**
	Microchip	27C512	
	OKI	MSM27512	
	TI	SMJ27C512	
		TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Waferscale	WS27C512	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Advanced Micro Devices (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
AM27512-25BXA	TI	SMJ27C512-25	
AM27512-30BXA	TI	SMJ27C512-30	
AM27549	Cypress	CY7C254	
		CY7C263	
		CY7C264	
AM2764	Catalyst Semi	CAT2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	Microchip	27C64	
	OKI	MSM2764	
	SEEQ	2764	
AM2764A	**Krueger**	**2764A-200**	**(3663)**
		2764A-300	**(3663)**
		2764A-450	**(3663)**
AM27827	IDT	IDT74FCT827	
AM27828	IDT	IDT74FCT828	
AM27833	IDT	IDT74FCT833	
AM28F010	Intel	28F010	
	TI	TMS29F010	
AM28F010A	Intel	28F010	
AM28F020	Intel	28F020	
AM28F020A	Intel	28F020	
AM28F256	Intel	28F256A	
	TI	TMS29F256	
		TMS29F258	
		TMS29F259	
AM28F512	Intel	28F512	
	TI	TMS29F512	
AM2802	**MSI/Scorpion**	**AM2802**	**(3598)**
AM2803	**MSI/Scorpion**	**AM2803**	**(3598)**
AM2804	**MSI/Scorpion**	**AM2804**	**(3598)**
AM2812	**MSI/Scorpion**	**AM2812**	**(3598)**
AM2813	**MSI/Scorpion**	**AM2813**	**(3598)**
AM2817	Catalyst Semi	CAT28C17	
	Microchip	28C17	
AM2833	**MSI/Scorpion**	**AM2833**	**(3598)**
AM2841	**MSI/Scorpion**	**AM2841**	**(3598)**
AM2847	**MSI/Scorpion**	**AM2847**	**(3598)**
AM2855	**MSI/Scorpion**	**AM2855**	**(3598)**
AM2856	**MSI/Scorpion**	**AM2856**	**(3598)**
AM2857	**MSI/Scorpion**	**AM2857**	**(3598)**
AM2864	Catalyst Semi	CAT28C64	
	EXEL	XL2864	
		XL2865	
	NEC	µPD28C64	
AM2864B	Fujitsu	MBM28C64	
AM28821	Harris	CD74FCT821	
AM29C01	Cypress	CY7C901	
	IDT	IDT39C01	
AM29C10	Cypress	CY7C910	
	IDT	IDT39C10	
AM29C10A	Cypress	CY7C910	
AM29C101	Cypress	CY7C9101	
	IDT	IDT49C402	
	LogicDev	L29C101	
	Waferscale	WS59016	
AM29C11	IDT	IDT49C410	
AM29C116	Cypress	CY7C9116	
AM29C117	Cypress	CY7C9117	
AM29C325	LSI Logic	L64135	
AM29C509	LogicDev	LMA1009	
		LMA2009	
		LMU2009	
AM29C510	LogicDev	LDI2010	
		LMA1010	
AM29C516	LogicDev	LMU16	
		LMU216	
AM29C517	LogicDev	LMU17	
		LMU217	
AM29C520	LogicDev	L29C520	
AM29C524	LogicDev	L29C524	
AM29C525	LogicDev	L29C525	
AM29C60	IDT	IDT39C60	
AM29C660	IDT	IDT49C460	
AM29C818A	AMD	AM29818	
	TI	SN74ALS29818	
AM29C818AJC	TI	AM29818A	
AM29C821A	AMD	AM29821	
	IDT	IDT74FCT821	
	National	74ACT821	
		74F821	
	TI	SN74ALS29821	
		SN74AS821	
		SN74BCT29821	
AM29C823A	AMD	AM29823	
	IDT	IDT74FCT823	
	National	74ACT823	
		74F823	
	TI	SN74ALS29823	
		SN74AS823	
		SN74BCT29823	
AM29C827A	AMD	AM29827	
	IDT	IDT74FCT827	
	National	74ACT827	
		74F827	
	TI	SN74ALS29827	
		SN74AS827	
		SN74BCT29827	
AM29C828A	AMD	AM29828	
	IDT	IDT74FCT828	
	National	74ACT828	
		74F828	
	TI	SN74ALS29828	
		SN74AS828	
		SN74BCT29828	
AM29C833A	AMD	AM29833	
	IDT	IDT74FCT833	
	TI	SN74ALS29833	
		SN74BCT29833	
AM29C841A	AMD	AM29841	
	IDT	IDT74FCT841	
	National	74ACT841	
		74F841	
	TI	SN74ALS29841	
		SN74AS841	
		SN74BCT29841	
AM29C843A	AMD	AM29843	
	IDT	IDT74FCT843	
	National	74ACT843	
		74F843	
	TI	SN74ALS29843	
		SN74AS843	
		SN74BCT29843	
AM29C853A	AMD	AM29853	
	IDT	IDT74FCT853	
	TI	SN74ALS29853	
		SN74BCT29853	
AM29C861A	AMD	AM29861	
	IDT	IDT74FCT861	
	Philips	74F861	
	TI	SN74ALS29861	
		SN74BCT29861	
AM29C863A	AMD	AM29863	
	IDT	IDT74FCT863	
	Philips	74F863	
	TI	SN74ALS29863	
		SN74BCT29863	
AM29L116	Cypress	CY7C9116	
AM29L510	Waferscale	WS59510	
AM29L516	Cypress	CY7C516	
AM2901	IDT	IDT39C01	
	Thomson Comp	TS2901	
	Waferscale	WS5901	
♦ AM2902	TI	SN74S182	
♦ AM2905	Lansdale	AL2905	
♦ AM2906	Lansdale	AL2906	
AM2909	Thomson Comp	TS2909	
AM2909A	Cypress	CY2909A	
AM2910	IDT	IDT39C10	
	Waferscale	WS5910	
AM2910A	Cypress	CY2910A	
AM2911	Cypress	CY2911	
	Thomson Comp	TS2911	
AM2911A	Cypress	CY2911A	
AM29116	Cypress	CY7C9116	
AM29117	Cypress	CY7C9117	
AM2914	Thomson Comp	TS2914	
AM2915	Thomson Comp	TS2915	
♦ AM2915	Lansdale	AL2915	
AM2917	Thomson Comp	TS2917	
AM2918	Rochester	2918	
AM29235	LSI Logic	L64135	
AM29510	LogicDev	LDI2010	
		LMA1010	
	Waferscale	WS59510	
AM29516	Cypress	CY7C516	
	LogicDev	LMU16	
		LMU216	
AM29517	LogicDev	LMU17	
		LMU217	
AM2952	Harris	CD74FCT2952	
AM29520	Harris	CD74FCT29520	
	LogicDev	L29C520	
	Waferscale	WS59520	
		WS59521	
AM29521	Harris	CD74FCT29521	
	LogicDev	L29C521	
	Waferscale	WS59520	
		WS59521	
AM2953	Harris	CD74FCT2953	
AM2960	IDT	IDT39C60	
♦ AM2960	IDT	IDT39C60	
	Motorola	MC74F2960	
	National	S2960	
		29F60	
♦ AM2960	Philips	S2960	
AM2964B	Rochester	2964B	
AM2965	National	DP84240	
AM29701	Cypress	CY27S07	
AM29703	Cypress	CY27S03	
♦ AM29809	Ideal Semi	ISI29809	
AM29818	AMD	AM29C818A	
AM29821	AMD	AM29C821A	
	IDT	IDT54FCT821	
		IDT74FCT821	
	National	74F821	
	Philips	N74F821	
		74F821	
	TI	SN74ALS29821	
		SN74AS821	
		SN74BCT29821	
AM29822	Harris	CD74FCT822	
AM29823	AMD	AM29C823A	
	Harris	CD74FCT823	
	IDT	IDT54FCT823	
		IDT74FCT823	
	National	74F823	
	Philips	N74F823	
		74F823	
	TI	SN74ALS29823	
		SN74AS823	
		SN74BCT29823	
AM29824	Harris	CD74FCT824	
	Philips	N74F824	
AM29825	Philips	N74F825	
♦ AM29825	TI	SN74AS825	
AM29827	AMD	AM29C827A	
	Harris	CD74FCT827	
	IDT	IDT54FCT827	
		IDT74FCT827	
	National	74F827	
	Philips	N74F827	
		74F827	
	TI	SN74ALS29827	
		SN74BCT29827	
AM29828	AMD	AM29C828A	
	Harris	CD74FCT828	
	IDT	IDT54FCT828	
	Philips	N74F828	
AM29833	AMD	AM29C833A	
	IDT	IDT54FCT833	
♦ AM29833	AMD	AM29C833A	
	IDT	IDT74FCT833	
	TI	SN74ALS29833	
		SN74BCT29833	
AM29841	AMD	AM29C841A	
	Harris	CD74FCT841	
	IDT	IDT54FCT841	
		IDT74FCT841	
	National	74F841	
	Philips	N74F841	
		74F841	
	TI	SN74ALS29841	
		SN74AS841	
AM29842	Harris	CD74FCT842	
AM29843	AMD	AM29C843A	
	Harris	CD74FCT843	
	IDT	IDT54FCT843	
		IDT74FCT843	
AM29843			(Cont'd
	National	74F843	
	Philips	N74F843	
		74F843	
	TI	SN74ALS29843	
		SN74AS843	
AM29844	Harris	CD74FCT844	
AM29845	IDT	IDT54FCT845	
		IDT74FCT845	
	Philips	N74F845	
♦ AM29846	Ideal Semi	ISI29846	
AM29853	AMD	AM29C853A	
♦ AM29853	AMD	AM29C853A	
	IDT	IDT74FCT853	
	TI	SN74ALS29853	
		SN74BCT29853	
AM29861	AMD	AM29C861A	
	Harris	CD74FCT861	
	IDT	IDT54FCT861	
		IDT74FCT861	
	Philips	N74F861	
♦ AM29861	AMD	AM29C861A	
	IDT	IDT74FCT861	
	Philips	74F861	
	TI	SN74ALS29861	
		SN74BCT29861	
AM29862	Harris	CD74FCT862	
AM29863	AMD	AM29C863A	
	Harris	CD74FCT863	
	IDT	IDT54FCT863	
		IDT74FCT863	
	Philips	N74F863	
♦ AM29863	AMD	AM29C863A	
	IDT	IDT74FCT863	
	Philips	74F863	
	TI	SN74ALS29863	
		SN74BCT29863	
AM29864	Harris	CD74FCT864	
AM301	Motorola	LM301	
AM311	Motorola	LM311	
AM33C93A	Western	WD33C93A	
AM3341	AMD	3341	
	MSI/Scorpion	**AM3341**	**(359**
AM3705	Siliconix	DG501	
AM386DXL-33	Intel	386DX-33	
AM386SXL-25	Intel	386SX-25	
AM386SXL-33	Intel	386SX-33	
AM4601	Samsung	KM75C101	
AM486DX-33	Intel	486DX-33	
AM486DX2-50	Intel	486DX2-50	
AM53C80	LogicDev	L53C80	
AM53C80A	NCR	53C80	
AM53C94	NCR	53C94-84-84	
AM53C96	NCR	53C94-100	
AM5380	LogicDev	L5380	
	Samsung	KS53C80	
♦ AM54S163	GoldStar	GD54S163A	
	TI	SN54S162	
		SN54S163	
AM54S240	Rochester	54S240	
♦ AM54S240	GoldStar	GD54S240	
	Lansdale	**SL54S240**	**(367**
	National	DM54S240	
	TI	SN54S240	
AM54S241	Rochester	54S241	
♦ AM54S241	GoldStar	GD54S241	
	Lansdale	**SL54S241**	**(367**
	National	DM54S241	
	TI	SN54S241	
AM54S244	Rochester	54S244	
♦ AM54S244	GoldStar	GD54S244	
	Lansdale	**SL54S244**	**(367**
	TI	SN54S244	
♦ AM54S373	Ideal Semi	ISI54S373	
♦ AM54S374	GoldStar	GD54S374	
	Lansdale	**SL54S374**	**(367**
	Rochester	54S374	
	TI	SN54S374	
♦ AM54S534	**Lansdale**	**SL54S534**	**(367**
AM592	Motorola	NE592	
		SE592	
AM6012	AD	DAC312	
	GEC Plessey	ZN6012	
	Philips	AM6012	
	Rochester	6012	
	SGS-Thomson	AM6012	
AM6070	**AD**	**DAC86**	**(351**
AM6072	**AD**	**DAC86**	**(351**
AM6080	GEC Plessey	ZN428	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Advanced Micro Devices (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
AM6081	GEC Plessey	ZN558	
AM6108	GEC Plessey	ZN439	
		ZN447	
AM6148	GEC Plessey	ZN439	
		ZN447	
AM6685	Maxim	MAX9685	
	Signal Proc	HCMP96850	
AM6685	Rochester	93415	
AM6687	Maxim	MAX9687	
AM6688	GEC Plessey	SP9754	
AM67C401	Cypress	CY7C401	
AM67C402	Cypress	CY7C402	
AM67C4023	Cypress	CY7C404	
AM67C403	Cypress	CY7C403	
AM67C4501	SGS-Thomson	MK45H01	
		MK4501	
AM67C4502	SGS-Thomson	MK45H02	
AM67C4503	SGS-Thomson	MK45H03	
		MK4503	
AM685	AD	CMP08	
	LinearTech	LT685	
	Maxim	MAX9685	
AM685	AD	AD9685	
	GEC Plessey	SP9685	
	National	μA685	
AM686	LinearTech	LT1016	
	Maxim	MAX9686	
	Rochester	686	
AM687	Maxim	MAX9687	
AM7C901	IDT	IDT39C01	
AM7C910	IDT	IDT39C10	
AM7200	IDT	IDT7200	
	Mosel-Vitelic	7200	
AM7200	IDT	IDT7200	
	Sharp	LH5495	
AM7201	Cypress	CY7C420	
		CY7C421	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Mosel-Vitelic	7201A	
	Quality Semi	QS7201	
	Samsung	KM75C01	
	Sharp	LH5496	
AM7201	Cypress	CY7C412	
		CY7C420	
		CY7C421	
AM7201	IDT	IDT7201	
	Samsung	KM75C01	
	SGS-Thomson	MK4501	
	Sharp	LH5496	
AM7202	Cypress	CY7C424	
		CY7C425	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Mosel-Vitelic	7202A	
	Quality Semi	QS7202	
	Samsung	KM75C02	
	Sharp	LH5497	
AM7202A	Cypress	CY7C424	
		CY7C425	
		CY7C425A	
	IDT	IDT7202	
	Quality Semi	QS7202	
	Samsung	KM75C02	
	Sharp	LH5497	
AM7203	Cypress	CY7C428	
		CY7C429	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	7203	
	Quality Semi	QS7203	
	Samsung	KM75C03	
	Sharp	LH5498	
AM7203A	Cypress	CY7C428	
		CY7C429	
		CY7C429A	
	IDT	IDT7203	
	Quality Semi	QS7203	
	Samsung	KM75C03	
	Sharp	LH5498	
AM7204	Cypress	CY7C432	
	IDT	IDT7204	
	MicronSemi	MT52C4K9	
	Mosel-Vitelic	7204	
	Quality Semi	QS7204	
	Sharp	LH5499	
AM7204A	Cypress	CY7C432	
		CY7C433	
		CY7C433A	
	IDT	IDT7204	
	Quality Semi	QS7204	
	Sharp	LH5499	
AM7205	MicronSemi	MT52C8K9	
AM7205A	Cypress	CY7C460	
	IDT	IDT7205	
AM723	Motorola	MC1723	
AM725	Motorola	MC1556	
◆ AM74S163	GoldStar	GD74S163A	
	TI	SN74S162	
		SN74S163	
AM74S189	Cypress	CY7S189	
		CY74S189	
◆ AM74S240	GoldStar	GD74S240	
	Lansdale	**SL74S240**	**(3675)**
	National	DM74S240	
	TI	SN74S240	
◆ AM74S241	GoldStar	GD74S241	
	Lansdale	**SL74S241**	**(3675)**
	National	DM74S241	
	TI	SN74S241	
◆ AM74S244	GoldStar	GD74S244	
	Lansdale	**SL74S244**	**(3675)**
	TI	SN74S244	
◆ AM74S374	GoldStar	GD74S374	
	Lansdale	**SL74S374**	**(3675)**
	National	DM74S374	
	TI	SN74S374	
AM74S534	**Lansdale**	**SL74S534**	**(3675)**
AM741	Motorola	MC1741	
AM747	Motorola	MC1747	
AM748	Motorola	MC1748	
AM79C980	AT&T	T7201A	
AM79M57	GEC Plessey	SL376	
AM7901	GEC Plessey	MV3000	
AM7902	GEC Plessey	MV3000	
AM7905	GEC Plessey	MV3000	
AM7910	SGS-Thomson	EF7910	
AM7950	GEC Plessey	SL7950	
AM7953	GEC Plessey	SL7953	
AM79856	AT&T	T7351A	
AM79865	AT&T	T7351A	
AM7990	SGS-Thomson	MK68590	
		MK7990	
AM7992	SGS-Thomson	MK68592	
		MK7992	
◆ AM8T26	Lansdale	AL8T26	
AM80286	Krueger	80286	
AM80515	Siemens	SAB80515	
AM80535	Siemens	SAB80535	
◆ AM8080A	**Lansdale**	**IL8080A**	**(3664)**
AM8085A	Newbridge	CA80C85B	
	OKI	MSM80C85A	
AM8086	OKI	MSM80C86A	
AM8088	OKI	MSM80C88A	
AM81C458	IDT	IDT75C458	
AM81C478	Raytheon	TMC0478	
AM8155	OKI	MSM81C55	
AM8156	OKI	MSM81C56	
AM82C54	Harris	82C54	
AM82C55	Harris	82C55	
AM82C59	Harris	82C59	
◆ AM8212	**Lansdale**	**IL8212**	**(3664)**
AM8212C	OKI	MSM82C12	
◆ AM8214	**Lansdale**	**IL8214**	**(3664)**
◆ AM8216	**Lansdale**	**IL8216**	**(3664)**
AM8224	National	DP8224	
◆ AM8224	**Lansdale**	**IL8224**	**(3664)**
◆ AM8226	**Lansdale**	**IL8226**	**(3664)**
AM8228	National	DP8228	
◆ AM8228	**Lansdale**	**IL8228**	**(3664)**
AM8251A	OKI	MSM82C51A	
AM82520	Siemens	SAB82520	
AM82525	**Siemens**	**SAB82525**	**(3769)**
AM8253	OKI	MSM82C53	
AM8257	OKI	MSM82C37	
◆ AM8282	**Lansdale**	**IL8282**	**(3664)**
		IL8283	**(3664)**
◆ AM8286	**Lansdale**	**IL8286**	**(3664)**
◆ AM8287	**Lansdale**	**IL8287**	**(3664)**
◆ AM8289	**Lansdale**	**IL8289**	**(3664)**
◆ AM8303	Intel	P8287	
	National	DP8303	
AM85C230A	Zilog	Z85230	
AM85C30	Zilog	Z85C30	
AM8530H	Zilog	Z8530	
AM90C256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
AM90C644	GoldStar	GM53C261	
		GM53C461	
AM9016	Krueger	4116-120	
		4116-150	
		4116-200	
AM9064	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
◆ AM9080	Rochester	8080	
AM9080A	Krueger	8080A	
AM91L14	American Micro	S2114	
	Fujitsu	MBM8414	
	Harris	HM6514	
	Hitachi	HM4334	
	Intel	P2114	
	National	2114	
	NEC	μPD4444	
		μPD6514	
	TI	TMS2114	
AM91L22	Cypress	CY7C122	
		CY91L22	
AM91L24	Harris	HM6514	
AM91L50	Cypress	CY7C150	
AM9114	Intel	D2114	
		P2114	
	Krueger	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
	Motorola	MCM2114	
	National	MM2114	
		2114	
	NEC	μPD2114	
	Sharp	LH5114H	
	TI	TMS211420	
		TMS4245	
AM9122	Cypress	CY7C122	
		CY9122	
	Fujitsu	MB8128	
	Hitachi	HM6116	
	IDT	IDTIDT6116	
	Motorola	MCM6116	
	NEC	μPD4016	
		μPD446	
	SGS-Thomson	MK4802	
	Toshiba	TMM2016	
AM9128	Cypress	CY6116	
		CY6116A	
	Krueger	**2128-100**	**(3663)**
		2128-120	**(3663)**
	Sharp	LH5116	
AM9147	**Krueger**	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
AM9148	**Krueger**	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
AM9150	Cypress	CY7C150	
AM9167	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
AM9168	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
AM92L44	Harris	HM6504	
AM9216	SGS-Thomson	MK6116	
AM93L422	Cypress	CY93L422	
	National	93L422	
◆ AM93L422	Rochester	93L422	
AM93L422A	Cypress	CY93L422A	
◆ AM93L422A	Rochester	93L422A	
AM93L425	National	93L425	
AM93S48	Rochester	93S48	
AM93422	Cypress	CY93422	
◆ AM93422	Rochester	93422	
AM93422A	Cypress	CY93422A	
◆ AM93422A	Rochester	93422A	
AM95168	Newbridge	CA95C18	
AM9517	Krueger	8237	
◆ AM9517	Intel	P8237	
	NEC	μPD8253	
◆ AM9517			(Cont'd)
	Siemens	SAB8237	
	Toshiba	TMP9517	
AM9520	**Harris**	**HSP9520**	**(3637)**
AM9568	Newbridge	CA95C68	
AM9864	Microchip	28C64	
	NEC	μPD28C64	
AM99CL68	Cypress	CY7C168	
AM99C164	Cypress	CY7C164	
	Toshiba	TC55416	
AM99C165	Cypress	CY7C166	
AM99C166	Toshiba	TC55417	
AM99C328	NEC	μPD43256	
	Toshiba	TC55328	
AM99C6404	LogicDev	L7C164	
AM99C641	Cypress	CY7C187	
	Toshiba	TC5561	
		TC5562	
AM99C644	Toshiba	TC55464	
AM99C68	Cypress	CY7C168	
	SGS-Thomson	IMS1423	
		MK41H68	
◆ AM99C68	Rochester	64C16	
AM99C88	Cypress	CY7C186	
	Harris	HM65642	
	Krueger	6264-025	
		6264-035	
		6264-045	
	SGS-Thomson	MK48H64	
	Toshiba	TC5563	
		TC5588	
AM99C89	SGS-Thomson	MK48H89	
A80186	Fujitsu	MBL80186	
	Intel	A80186	
	Siemens	SAB80186	
CY2909	Cypress	CY2909	
CY2910	Cypress	CY2910	
C57401	Cypress	CY7C401	
	IDT	IDT72401	
◆ C57401	Cypress	CY7C401	
	IDT	IDT72401	
C57402	Cypress	CY7C402	
	IDT	IDT72402	
◆ C57402	Cypress	CY7C402	
	IDT	IDT72402	
C57402A	IDT	IDT72402	
C67L401	Cypress	CY7C401	
	GEC Plessey	MV66401	
C67L4013	GEC Plessey	MV66403	
C67L402	GEC Plessey	MV66402	
C6740	Cypress	CY7C403	
C67401	Cypress	CY7C401	
	GEC Plessey	MV66401	
	IDT	IDT72401	
C67401A	IDT	IDT72401	
C67402	Cypress	CY7C402	
		CY7C404	
	GEC Plessey	MV66402	
	IDT	IDT72402	
C67402A	IDT	IDT72402	
DAC08	GEC Plessey	ZN429	
	Philips	DAC08	
		NE5009	
DM81LS95	National	DM81LS95	
DP8303	National	DP8303	
DP8304	National	DP8304	
◆ DP8304	Intel	P8286	
	National	DP8304	
DP8307	National	DP8307	
DP8308	National	DP8308	
DS8838	National	DS8838	
D67L401	GEC Plessey	MV66401	
D67L402	GEC Plessey	MV66402	
D7651	Intel	D8751	
D80C31	Intel	D80C31	
D80C51	Intel	D80C51	
D8031	Intel	D8031	
D8051	Intel	D8051	
D8053	Intel	D8862	
D82C54	Samsung	KS82C54	
D8212	National	DP8212	
D8216	National	DP8216	
D8224	National	DP8224	
D8228	National	DP8228	
D8237	Samsung	KS82C37	
D8255	Samsung	KS82C55	
D8259	Samsung	KS82C59	
D8266	National	DP8226	
D8284	Samsung	KS82C84	
D8284A	Siemens	SAB8284	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
D8288	Samsung	KS82C88	
	Siemens	SAB8288A	
D87C51	Intel	D87C51	
D8753	Intel	D8752	
LF155	LinearTech	LF1055	
		LF155	
		LT1055	
LF156	LinearTech	LF156	
		LT1056	
LF198	LinearTech	LF198	
	Philips	LF198	
		SE5537	
LF355	LinearTech	LF355	
		LT1055	
♦ LF355	Rochester	LF355	
LF356	LinearTech	LF356	
		LT1056	
♦ LF356	Rochester	LF356	
LF398	LinearTech	LF398	
	Philips	LF398	
		NE5537	
LH2101A	Raytheon	LH2101A	
LH2111	Raytheon	LH2111	
LM101A	Raytheon	LM101A	
♦ LM107	Rochester	LM107	
LM108	LinearTech	LM108	
		LT1008	
LM111	LinearTech	LM111	
		LT1011	
		LT111	
LM118	LinearTech	LM118	
♦ LM118	Rochester	LM118	
LM119	LinearTech	LM119	
		LT119	
♦ LM119	Rochester	LM119	
LM124	Raytheon	LM124	
LM139	Raytheon	LM139	
LM148	LinearTech	LT1014	
LM308	LinearTech	LM308	
		LT1008	
LM311	LinearTech	LM311	
		LT1011	
		LT311	
LM318	LinearTech	LM318	
		LT318	
LM319	LinearTech	LM319	
		LT319	
LM324	Raytheon	LM324	
LM348	Raytheon	LM348	
MMI82C82	Harris	82C82	
MMI82C83	Harris	82C83	
MMI82C86	Harris	82C86	
MMI82C87	Harris	82C87	
MM8629	GEC Plessey	SP8629	
N8T28	National	DS8T28	
N80C186	Intel	N80C186	
N80C188	Intel	N80C188	
♦ N80C286-12	Harris	CS80C286-12	
♦ N80C286-16	Harris	CS80C286-16	
N80C31	Intel	N80C31	
N80C32	Intel	N80C32	
N80C51	Intel	N80C51	
N80C52	Intel	N80C52	
N80L286-10	Intel	N80286-10	
	Siemens	SAB80286-10	
N80L286-12	Intel	N80286-12	
	Siemens	SAB80286-12	
N80L286-16	Siemens	SAB80286-16	
N80L286-8	Intel	N80286-8	
	Siemens	SAB80286	
N8031	Intel	N8031	
N8051	Intel	N8051	
N82C54	Newbridge	CA82C54	
N82C59A	Newbridge	CA82C59A	
♦ N82S62	Philips	N82S62	
N8259A	Newbridge	CA82C59A	
PALCE16V8	ATMEL	ATF16V8	
	Cypress	PALC16L8	
		PALC16R4	
		PALC16R6	
		PLDC18G8	
	Intel	85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	GAL16V8	
	SGS-Thomson		
		GAL16V8	
PALCE20RA10			
	Intel	PLD610	
		85C060	
			(Continued)
PALCE20RA10			(Cont'd)
	National	PAL20RA10	
	SEEQ	DE20RA10	
		DM20RA10	
		DQ20RA10	
		NE20RA10	
		NQ20RA10	
		PE20RA10	
		PQ20RA10	
PALCE20V8	ATMEL	ATF20V8	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	National	GAL20V8	
	SGS-Thomson		
		GAL20V8	
PALCE22V10	ATMEL	ATF22V10	
		AT22V10	
	Cypress	C22V10	
		PALC22V10	
	Intel	PLD22V10	
		85C22V10	
	ICT	PEEL22CV10	
	Lattice	GAL22V10	
	TI	TICPAL22V10	
PALCE24V10	Lattice	GAL26CV12	
PALCE26V12	Lattice	GAL26CV12	
	SEEQ	DQ26V12	
		NQ26V12	
		PQ26V12	
PALCE610	Cypress	PLD610	
	Intel	PLD610	
		85C060	
PALC16L8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PALC16R4	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PALC16R6	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PALC16R8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PALC18U8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
PALC20L8	ICT	PEEL22CV10	
PALC20R4	ICT	PEEL22CV10	
PALC20R6	ICT	PEEL22CV10	
PALC20R8	ICT	PEEL22CV10	
PALC22V10	ATMEL	AT22V10	
	Cypress	CYPALC22V10	
	Lattice	GAL22V10	
PAL10H8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	Ricoh	EPL10P8B	
	TI	TIBPAL16L8	
PAL10L8	**American**		
	Micro	**PEEL153**	**(3503)**
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	Ricoh	EPL10P8B	
	TI	TIBPAL16L8	
PAL12H6	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	Ricoh	EPL12P6B	
	TI	TIBPAL16L8	
PAL12L10	Cypress	CYPLDC20G10	
	ICT	PEEL20CG10	
	TI	TIBPAL22V10	
PAL12L16	American		
	Micro	PEEL173	
PAL12L6	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	Ricoh	EPL12P6B	
	TI	TIBPAL16L8	
PAL14H4	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	Ricoh	EPL14P4B	
	TI	TIBPAL16L8	
PAL14L4	ICT	PEEL18CV8	
		PEEL20CG10	
	Lattice	GAL16V8	
	Ricoh	EPL14P4B	
	TI	TIBPAL16L8	
PAL14L8	Cypress	CYPLDC20G10	
		CYPLD20G10	
		PLDC20G10	
		PLD20G10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
		TIBPAL22V10	
PAL16HD8	ICT	PEEL18CV8	
PAL16H2	ICT	PEEL18CV8	
	Lattice	GAL16V8	
			(Continued)
PAL16H2			(Cont'd)
	Ricoh	EPL16P2B	
	TI	TIBPAL16L8	
PAL16LD8	ICT	PEEL18CV8	
PAL16L2	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	Ricoh	EPL16P2B	
	TI	TIBPAL16L8	
PAL16L6	Cypress	CYPLDC20G10	
		CYPLD20G10	
		PLDC20G10	
		PLD20G10	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL16L8	Cypress	CYPALC16L8	
		PAL16L8	
	Intel	5C032	
		85C220	
		85C508	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	DMPAL16L8	
	Philips	PLUS16L8	
	Ricoh	EPL16P8B	
	TI	TIBPAL16L8	
PAL16L8A	Cypress	PALC16L8	
PAL16L8D	Philips	PLUS16L8D	
PAL16P8	Lattice	GAL16V8	
PAL16RP4	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PAL16RP6	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PAL16RP8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
PAL16R4	Cypress	CYPALC16R4	
		PALC16R4	
		PAL16R4	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	DMPAL16R4	
	Philips	PLUS16R4	
		PLUS16R4-7N	
	Ricoh	EPL16RP4	
	TI	TIBPAL16R4	
PAL16R4A	Cypress	PALC16R4	
PAL16R4D	Philips	PLUS16R4D	
PAL16R6	Cypress	CYPALC16R6	
		PALC16R6	
		PAL16R6	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	DMPAL16R6	
	Philips	PLUS16R6	
	Ricoh	EPL16RP6B	
	TI	TIBPAL16R6	
PAL16R6-7	Philips	PLUS16R6-7	
PAL16R6A	Cypress	PALC16R6	
PAL16R6D	Philips	PLUS16R6D	
PAL16R8	Cypress	CYPALC16R8	
		PALC16R8	
		PAL16R8	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	DMPAL16R8	
	Philips	PLUS16R8	
	Ricoh	EPL16RP8B	
	TI	TIBPAL16R8	
PAL16R8-7	Philips	PLUS16R8-7	
PAL16R8A	Cypress	PALC16R8	
PAL16R8D	Philips	PLUS16R8D	
PAL17L8	Cypress	PALC16L8	
PAL18L4	Cypress	CYPLDC20G10	
		PLDC20G10	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL18P8	ICT	PEEL18CV8	
PAL20L10	Cypress	CYPLDC20G10	
		PLDC20G10	
	ICT	PEEL20CG10	
	Lattice	GAL22V10	
	TI	TIBPAL22V10	
PAL20L2	Cypress	CYPLDC20G10	
		PLDC20G10	
			(Continued)
PAL20L2			
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL20L8	Cypress	CYPLDC20G1	
		PLDC20G10	
	Intel	85C224	
		85C508	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL20L8-10	Philips	PLUS20L8D	
PAL20L8-7	Philips	PLUS20L8-7	
PAL20L8-7JC	Philips	PLUS20L8-7	
PAL20RA10	Lattice	GAL20RA10	
PAL20RS10	Lattice	GAL22V10	
PAL20RS4	Lattice	GAL22V10	
PAL20RS8	Lattice	GAL22V10	
PAL20R4	Cypress	CYPLDC20G1	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	National	DMPAL20R4	
	Philips	PLUS20R4	
	TI	TIBPAL20R4	
PAL20R4-10	Philips	PLUS20R4D	
PAL20R4-7	Philips	PLUS20R4-7	
PAL20R6	Cypress	CYPLDC20G1	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	National	DMP20R6	
	Philips	PLUS20R6	
	TI	TIBPAL20R6	
PAL20R6-7	Philips	PLUS20R6-7	
PAL20R8	Cypress	CYPLDC20G1	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	National	DMPAL20R8	
	Philips	PLUS20R8	
	TI	TIBPAL20R8	
PAL20R8-10	Philips	PLUS20R8D	
PAL20R8-10PC			
	Philips	PLUS20R8DN	
PAL20R8-7	Philips	PLUS20R8-7	
PAL20S10	Lattice	GAL22V10	
PAL20X10	Lattice	GAL22V10	
	TI	TIBPAL20V10	
		TIBPAL22V10	
PAL20X4	Lattice	GAL22V10	
	TI	TIBPAL22V10	
PAL20X8	Lattice	GAL22V10	
	TI	TIBPAL22V10	
PAL22V10	Cypress	PALC22V10	
	Intel	PLD22V10	
		85C22V10	
	Lattice	GAL22V10	
	National	DMPAL20RP8	
	TI	PAL22V10	
		TIBPAL22V10	
PAL22V10A	Cypress	PALC22V10	
PAL32VX10	TI	TIBPAL22V10	
PLE10P4	Philips	82S137	
PLE10P8	Cypress	CY7C281	
		CY7C282	
	Philips	82S181	
PLE10R8	Cypress	CY7C235	
PLE11P4	Philips	82S185	
PLE11P8	Cypress	CY7C291	
	Philips	82S191	
PLE11RA8	Cypress	CY7C245	
PLE11RS8	Cypress	CY7C245	
PLE12P8	Philips	82HS321	
PLE5P8	Philips	82S123	
PLE8P4	Philips	82S126	
PLE9P8	Philips	82S147	
PLE9R8	Cypress	CY7C225	
P80C31	Intel	P80C31	
	Siemens	SAB80C31	
P80C32	Intel	P80C32	
P80C51	Intel	P80C51	
	Siemens	SAB80C51	
P80C52	Intel	P80C52	
P8031	Intel	P8031	
	Siemens	SAB8031	
P8051	Intel	P8051	
P8052	Intel	D8052	
P8053	Intel	P8052	
P8080A	Krueger	8080A	
			(Contin

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
P8086	Intel	P8086	
	Siemens	SAB8086	
P8088	Siemens	SAB8088	
P8088	Fujitsu	MBL8088	
	Intel	P8088	
	Siemens	SAB8088	
P82C288	Siemens	SAB82288	
P82C54	Intel	P82C54	
	Newbridge	CA82C54	
P8212	National	DP8212	
P8216	National	DP8216	
P8226	National	DP8226	
P8237	Krueger	8237	
P8237	Intel	P8237	
	NEC	µPD8237	
	Siemens	SAB8237	
	Toshiba	TMP8517	
P8237A	Newbridge	CA82C37A	
	Siemens	SAB8237A	
P8251	Intel	P8251	
	Mitsubishi	M5L8251	
	NEC	µPD8251	
	Toshiba	TMP8251	
P8253	Intel	P8253	
	Mitsubishi	M5L8253	
	NEC	µPD8253	
	Toshiba	TMP8253	
P8255	Intel	P8255	
	NEC	µPD8255	
	Siemens	SAB8256	
	Toshiba	TMP8255	
P8259	Newbridge	CA82C59A	
P8259A	Siemens	SAB8259A	
P8284A	Newbridge	CA82C84A	
P8288	Newbridge	CA82C88	
R80186	Fujitsu	MBL80186	
	Intel	C80186-3	
		R80186	
	Siemens	R80186	
R80186-10	Intel	R80186-10	
R80188	Fujitsu	MBL80188	
	Intel	R80188	
	Siemens	SAB80188	
R80188-10	Intel	R80188-10	
R80286-10	Intel	R80286-10	
	Siemens	SAB80286-10	
R80286-12	Intel	R80286-12	
	Siemens	SAB80286	
R80286-16	Siemens	SAB80286-16	
R80286-8	Fujitsu	MBL80286	
	Intel	C80286-8	
		R80286-8	
	Siemens	SAB80286	
SN54LS491	National	54LS502	
SN54S244	GoldStar	GD54S244	
	Lansdale	**SL54S244**	**(3674)**
	TI	SN54S244	
SN54557	LogicDev	LMU557	
SN54558	LogicDev	LMU558	
SN74LS461	National	DM74LS453	
		DM74LS461	
SN74LS469	Motorola	SN74LS47	
	National	74LS47	
	TI	SN74LS47	
SN74LS491	National	74LS502	
SN74S161	National	93S16	
	TI	SN74S161	
SN74S189	National	DM74S189	
SN74S240	TI	SN74S240	
SN74S241	TI	SN74S241	
SN74S244	Philips	SN74S244	
SN74S289	National	DM74S289	
	Philips	S82S25	
SN74S409-2	National	DM74S47SA-45	
SN74557	LogicDev	LMU557	
SN74558	LogicDev	LMU558	
S80C186	Intel	S80C186	
S80C188	Intel	S80C188	
TC57512	Toshiba	TC27512	
Z85C30	Zilog	Z85C30	
Z8530	Zilog	Z08530	
16V8	Ricoh	EPL204	
18P8	Ricoh	EPL204	
22V10	Ricoh	EPL241	
27S181	Philips	82S181	
27S181A	Philips	82S181A	
27S185	Philips	82S185	
27S185A	Philips	82S185A	
27S33	Philips	82S137	
27S41	Philips	82HS195	
27S41A	Philips	82HS195A	
27S43A	Philips	82HS321	
2817	SEEQ	2817	
2864	SEEQ	28C64	
		2864	
♦ 2905	Lansdale	AL2905	
♦ 2906	Lansdale	AL2906	
♦ 2915	Lansdale	AL2915	
3341	AMD	AM3341	
53RA1681	Cypress	CY7C245	
53RA481	Cypress	CY7C225	
53RS1681	Cypress	CY7C245	
53RS881	Cypress	CY7C235	
53R1681	Cypress	CY7C245	
53S1681	Cypress	CY7C291	
		CY7C292	
53S3281	Waferscale	WS57C43	
53S881	Cypress	CY7C281	
		CY7C282	
5381	Cypress	CY7C281	
		CY7C282	
57C401	IDT	IDT72401	
57C4013	IDT	IDT72403	
57C402	IDT	IDT72402	
57C4023	IDT	IDT72404	
57C4033	IDT	IDT72413	
57401	Cypress	CY7C401	
	IDT	IDT72401	
♦ 57401	Cypress	CY7C401	
	IDT	IDT72401	
57402	Cypress	CY7C402	
	IDT	IDT72402	
♦ 57402	Cypress	CY7C402	
	IDT	IDT72402	
57402A	IDT	IDT72402	
57413	IDT	IDT72413	
63RA161	Fujitsu	MB7238	
63RA1681	Cypress	CY7C245	
	Fujitsu	MB7238	
63RA481	Cypress	CY7C225	
	Fujitsu	MB7226	
63RS1681	Cypress	CY7C245	
63RS881	Cypress	CY7C235	
	Fujitsu	MB7232	
	Philips	N82HS187	
		N82HS189	
63S080	Fujitsu	MB7111	
63S081	Philips	82S123	
63S140	Philips	82S126	
♦ 63S140	Lansdale	HL7610	
63S141	Philips	82S126	
♦ 63S141	Lansdale	HL7611	
63S1641	Philips	82HS195	
♦ 63S1641	Lansdale	HL76165	
63S1641A	Philips	82HS195A	
63S1681	Cypress	CY7C291	
		CY7C292	
	Fujitsu	MB71A38	
		MB7138	
	Philips	N82S191A	
		82S191	
	Waferscale	WS57C191	
		WS57C291	
♦ 63S1681	Lansdale	HL76161	
63S240	Fujitsu	MB7115	
♦ 63S240	Lansdale	HL7620	
♦ 63S241	Lansdale	HL7621	
63S280	Fujitsu	MB7117	
63S281	Fujitsu	MB7118	
♦ 63S281	Fujitsu	MB7118	
	National	DM74LS471	
	Philips	N82S135	
63S3281	Fujitsu	MB7142	
	Waferscale	WS57C43	
♦ 63S3281	Lansdale	HL76321	
63S3281A	Philips	82HS321	
63S440	Fujitsu	MB7121	
63S441	Fujitsu	MB7122	
	Philips	82S137	
63S441A	Philips	82S137A	
63S480	Fujitsu	MB7123	
63S481	Fujitsu	MB7124	
	Philips	82S147	
63S485	Philips	82S141	
63S6481	Philips	82HS641	
63S841	Fujitsu	MB7128	
	Philips	82S185	
63S841A	Philips	82S185A	
63S881	Cypress	CY7C281	
		CY7C282	
	Fujitsu	MB7132	
	Philips	82S181	
63S881A	Philips	82S181A	
♦ 6300	Lansdale	HL7610	
♦ 6301	Lansdale	HL7611	
♦ 6305	Lansdale	HL7620	
♦ 6306	Lansdale	HL7621	
♦ 6308-1	Rochester	28LA22	
♦ 6309-1	Rochester	28L22	
631681	Waferscale	WS57C291	
♦ 6330	Lansdale	HL7602	
♦ 6331	Lansdale	HL7603	
♦ 6340	Lansdale	HL7640	
♦ 6341	Lansdale	HL7641	
♦ 6349	Lansdale	HL7649	
♦ 6352	Lansdale	HL7642	
♦ 6353	Lansdale	HL7643	
6381	Cypress	CY7C281	
		CY7C282	
♦ 6381	Lansdale	HL7681	
♦ 6389	Lansdale	HL7685	
67C401	Cypress	CY7C401	
	IDT	IDT72401	
67C4013	Cypress	CY7C403	
	IDT	IDT72403	
67C402	Cypress	CY7C402	
	IDT	IDT72402	
67C4023	Cypress	CY7C404	
	IDT	IDT72404	
67C403	Cypress	CY7C403	
67C4033	IDT	IDT72413	
67C413	IDT	IDT72413	
67L401	GEC Plessey	MV66401	
67L402	Cypress	CY7C402	
67401	Cypress	CY7C401	
		CY7C403	
	GEC Plessey	MV65401	
	IDT	IDT72401	
67402	Cypress	CY7C402	
		CY7C404	
	GEC Plessey	MV65402	
	IDT	IDT72402	
67402A	IDT	IDT72402	
67411	Cypress	CY7C403	
	GEC Plessey	MV65401	
67412	Cypress	CY7C402	
	GEC Plessey	MV65402	
67413	IDT	IDT72413	
67413A	IDT	IDT72413	
♦ 74LS169	Rochester	74LS169	
79C98	AT&T	T7220A	
		T7231	
♦ 8T26	Rochester	8T26	
♦ 8T28	Rochester	8T28	
80C31BH	**Philips**	**SC80C31B**	**(3707)**
80186	Krueger	80186	
	Siemens	SAB80186	
80286	Harris	80C286	
	Siemens	SAB80286	
8031	Krueger	8031	
8035	Krueger	8035	
8039	Krueger	8039	
8085A	Krueger	8085A	
8086	Krueger	8086	
♦ 8086	Intel	MD8086	
8088	Krueger	8088	
♦ 8088	Intel	MD8088	
82005	SEEQ	82005	
82025	SEEQ	82025	
82284	Intel	SAB82284	
	Siemens	SAB82284	
8251	Krueger	8251	
	SMC	COM8251	
♦ 8251	Intel	MD8251	
♦ 8253	Intel	MD8253	
8254	Krueger	8254	
8255	Krueger	8255	
♦ 8255	Intel	MD8255	
8257	Krueger	8257	
8259A	Krueger	8259	
♦ 9016	Rochester	4116	
♦ 9600	Rochester	9600	
♦ 9620	Rochester	9620	
♦ 9621	Rochester	9621	

AEG Corp-Telefunken

Manufacturer Device	Replacement Source	Device	IC Master Page
CQY80N	Toshiba	TLP731	
K3010P	Toshiba	TLP3021	
K3020P	Toshiba	TLP3021	
U264	GEC Plessey	SP8755	
U496	GEC Plessey	SP4780	
U641B	Micrel	MIC641	
U6502	GEC Plessey	SP8812	
		SP8822	
		SP8832	
U664	GEC Plessey	SP4632	
U666	GEC Plessey	SP4653	
U668	GEC Plessey	SP4642	
4N25	Toshiba	4N25	
4N26	Toshiba	4N26	
4N27	Toshiba	4N27	
4N32	Toshiba	4N32	
4N33	Toshiba	4N33	
4N35	Toshiba	4N35	
4N36	Toshiba	4N36	
4N37	Toshiba	4N37	
4N38A	Toshiba	4N38A	

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Manufacturer Device	Replacement Source	Device	IC Master Page
A8902	Hitachi	HA13601S	
A8903	Hitachi	HA13601S	
♦ A8903	Allegro Micro	A8902	
A8922	Hitachi	HA13471A	
A8925	Hitachi	HA13491S	
A8932	Hitachi	HA13490	
A8958	Hitachi	HA13490	
	Unitrode	UC3175	
♦ NE5560	Philips	NE5560	
♦ NE5561	Philips	NE5561	
♦ NE5568	Philips	NE5568	
♦ NE564	Philips	NE564	
SCM27C256	Waferscale	WS27C256	
SE564	Philips	SE564	
♦ SG3525	Linfinity Micro	SG3525	
	Siliconix	PWM25	
	Unitrode	UC3525	
♦ SG3526	Linfinity Micro	SG3526	
	Unitrode	UC3526	
SG3527	National	LM3527	
♦ SG3527	Linfinity Micro	SG3527	
	Siliconix	PWM27	
	Unitrode	UC3527	
SPL14LC8	Lattice	GAL16V8	
SPL16LC8	Lattice	GAL16V8	
SPL16RC4	Lattice	GAL16V8	
SPL16RC6	Lattice	GAL16V8	
SPL16RC8	Lattice	GAL16V8	
SPL18LC4	Lattice	GAL20V8	
SPL20LC2	Lattice	GAL20V8	
SPL20LC8	Lattice	GAL20V8	
SPL20RC4	Lattice	GAL20V8	
SPL20RC6	Lattice	GAL20V8	
SPL20RC8	Lattice	GAL20V8	
♦ SS54HCT643	Harris	CD54HCT643	
	National	MM54HCT643	
	Rochester	54HCT643	
♦ SS54HC574	Harris	CD54HC574	
	Motorola	MC54HC574A	
	National	MM54HC574	
	TI	SN54HC574	
♦ TL594	Fujitsu	MB3759	
	TI	TL494	
		TL594	
♦ TL594	Unitrode	UC494	
♦ TL595	Fujitsu	MB3760	
	TI	TL495	
		TL595	
♦ TL595	Unitrode	UC495	
TND903	National	FSA2719	
TND908	National	FSA2619	
TND933	TI	TID121	
TND938	TI	TID123	
TND939	TI	TID124	
TND940	TI	TID122	
♦ TPQ2221	Motorola	MPQ2221	
♦ TPQ2222A	Motorola	MPQ2222A	
	National	FPQ2222A	
	TI	Q2T2222A	
♦ TPQ2369	Motorola	MPQ2369	
♦ TPQ2483	Motorola	MPQ2483	
♦ TPQ2484	Motorola	MPQ2484	
♦ TPQ2906	Motorola	MPQ2906	
TPQ2907A	Motorola	MPQ2907A	
	National	FPQ2907A	
♦ TPQ3724	Harris	CA1724	
		CA3724	
♦ TPQ3724	Motorola	MPQ3724	
	National	DH3724	
		FPQ3724	
♦ TPQ3724	TI	SP3724	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Allegro Micro Systems (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ TPQ3725	Harris	CA1725	
		CA3725	
♦ TPQ3725	Motorola	MPQ3725	
	National	DH3725	
		DM3725	
		FPQ3725	
♦ TPQ3725	TI	Q2T3725	
		SP3725	
♦ TPQ3798	Motorola	MPQ3798	
♦ TPQ3799	Motorola	MPQ3799	
TPQ3904	Motorola	MPQ3904	
TPQ3906	Motorola	MPQ3906	
♦ TPQ6001	Motorola	MPQ6001	
TPQ6002	Motorola	MPQ6002	
♦ TPQ6100	Motorola	MPQ6100	
♦ TPQ6501	Motorola	MPQ6501	
TPQ6502	Motorola	MPQ6502	
♦ TPQ6600	Motorola	MPQ6600	
TPQ6700	Motorola	MPQ6700	
♦ UCN4202	Allegro Micro	UCN5804	
♦ UCN4203	Allegro Micro	UCN5804	
♦ UCN4205	Allegro Micro	UCN5804	
♦ UCN4401	Allegro Micro	UCN5800	
♦ UCN4810	Allegro Micro	UCN5801	
		UCN5810	
♦ UCN4815	Allegro Micro	UCN5815	
♦ UCN4821	Allegro Micro	UCN5821	
♦ UCN4822	Allegro Micro	UCN5822	
♦ UCN4823	Allegro Micro	UCN5823	
UCN5800A	**Micrel**	**MIC5800**	(3687)
UCN5801	American Micro	S4534	
	SGS-Thomson	UCN4801	
UCN5801A	**Micrel**	**MIC58P01**	(3687)
		MIC5801	(3687)
UCN5804	**Ericsson**	**PBD3517**	(3609)
	Motorola	MC3479	
		SAA1042	
	Philips	SAA1027	
	Unitrode	UC3517	
UCN5810	American Micro	S4534	
	TI	TL4810	
		UCN4810	
UCN5811	TI	SN75512	
UCN5812	Allegro Micro	UCN5812	
	TI	TL5812	
UCN5818	American Micro	S4535	
	TI	SN75518	
UCN5821A	**Micrel**	**MIC5821**	(3687)
UCN5822A	**Micrel**	**MIC5822**	(3687)
UCN5841A	**Micrel**	**MIC58P42**	(3687)
		MIC5841	(3687)
UCN5842A	**Micrel**	**MIC58P42**	(3687)
		MIC5842	(3687)
UCN5843A	Micrel	MIC5843	
♦ UCN5851	TI	SN75551	
♦ UCN5852	TI	SN75552	
♦ UCN5853	TI	SN75554	
♦ UCN5857	TI	SN75500	
♦ UCN5858	TI	SN75501	
UCN5890A	Micrel	MIC5890	
UCN5891A	Micrel	MIC5891	
UCQ5810	TI	TL4810	
UCQ5811	TI	SN65512	
UCQ5812	TI	TL5812	
♦ UCQ5818	TI	SN65518	
♦ UDN2508	Samsung	KA2508	
UDN2540	Hitachi	HA13007	
	SGS-Thomson	L6221	
♦ UDN2541	Allegro Micro	UDN2543	
UDN2541B	**Harris**	**CA3262**	(3638)
♦ UDN2542	Allegro Micro	UDN2543	
UDN2543	Harris	CA3219	
		CA3242	(3638)
		CA3262	(3638)
UDN2543			(Cont'd)
	Hitachi	HA13415	
	TI	SN75437	
UDN2544	SGS-Thomson	L6220	
♦ UDN2545	Linfinity Micro	SG3637	
UDN2547	**Harris**	**CA3272**	(3638)
UDN2580	Mitsubishi	M2580	
	Motorola	MC1417	
	Samsung	KA2580	
UDN2588	Samsung	KA2588	
♦ UDN2841	Linfinity Micro	SG2841	
	Motorola	UDN2841	
	TI	UDN2841	
♦ UDN2845	Linfinity Micro	SG2845	
	Motorola	UDN2845	
	TI	UDN2845	
UDN2935	Linfinity Micro	SG3635	
♦ UDN2935	Linfinity Micro	SG3635	
UDN2936	Unitrode	UC3620	
UDN2950	Unitrode	UC2950	
♦ UDN2950	TI	SN75605	
	Unitrode	UC2950	
♦ UDN2952	Allegro Micro	UDN2953	
		UDN2954	
UDN2953	Ericsson	PBL3717	
		PBL3770	
	Unitrode	UC3717	
UDN2954	Unitrode	UC3770	
♦ UDN2956	Allegro Micro	UDN2957	
UDN2962	Linfinity Micro	SG3643	
	SGS-Thomson	L295	
	Unitrode	L295	
♦ UDN2975	Allegro Micro	UDN2962	
♦ UDN2976	Linfinity Micro	SG3638	
UDN2981	Mitsubishi	M2981	
		M54563	
UDN2982	Mitsubishi	M2982	
		M54532	
		M54562	
UDN2983	Mitsubishi	M2983	
UDN2984	Mitsubishi	M2984	
UDN2993	Hitachi	HA13421	
	National	LM18293	
	SGS-Thomson	L293	
	TI	L298	
		SN754410	
		SN754411	
	Unitrode	L293	
UDN2998	Linfinity Micro	SG298	
	SGS-Thomson	L298	
	Unitrode	L298	
UDN3611	National	DS3631	
♦ UDN3611	National	DS3611	
		LM3611	
♦ UDN3611	TI	SN75471	
UDN3612	National	DS3632	
♦ UDN3612	National	DS3612	
		LM3612	
♦ UDN3612	TI	SN75472	
UDN3613	National	DS3633	
♦ UDN3613	National	DS3613	
		LM3613	
♦ UDN3613	TI	SN75473	
♦ UDN3614	National	DS3614	
		LM3614	
♦ UDN3614	TI	SN75474	
♦ UDN5711	Motorola	MC1471	
	TI	UDN5711	
UDN5712	Motorola	MC1472	
♦ UDN5712	Motorola	MC1472	
	TI	SN75475	
		UDN5712	
UDN5713	Motorola	MC1473	
	TI	SN75478	
		UDN5713	
♦ UDN5714	Motorola	MC1474	
	TI	SN75479	
		UDN5714	
♦ UDN5714	Toshiba	TD62479	
♦ UDN5722	TI	SN75477	
♦ UDN5752	TI	SN75407	
UDN6116	Dionics	DI507	
		DI508	
		DI509	
		DI514	
UDN6118	Dionics	DI154	
	Exar	XR6118	
	Hitachi	HA16617	
	Linfinity Micro	SG6118	
	OKI	MSL912	
	Philips	NE594	
		SA594	
	Toshiba	TD62781	
♦ UDN6126	Allegro Micro	UDN6116	
♦ UDN6128	Exar	XR6128	
	Toshiba	TD62782	
♦ UDN6164	Allegro Micro	UDN6116	
♦ UDN6184	Allegro Micro	UDN6118	
♦ UDN6510	Dionics	DI510	
♦ UDN6514	Dionics	DI512	
♦ UDN7180	Dionics	DI300	
♦ UDN7183	Dionics	DI302	
UDQ2543	Harris	CA3219	
♦ UDQ6116	Exar	XR6116	
UDQ6118	Hitachi	HA16617	
	Philips	SA594	
♦ UDS2953	Allegro Micro	UDS2954	
♦ UD4181	Allegro Micro	UDN5706	
♦ UGN3013	Allegro Micro	UGN3113	
UGN3019	TI	TL3019	
UGN3020	TI	TL3020	
♦ UGN3020	Allegro Micro	UGN3120	
♦ UGN3030	Allegro Micro	UGN3130	
♦ UGN3040	Allegro Micro	UGN3140	
♦ UGN3075	Allegro Micro	UGN3175	
♦ UGN3077	Allegro Micro	UGN3177	
UGN3113	TRWLSI	OHN3013	
♦ UGN3119	National	DN6837	
		DN6839	
♦ UGN3119	Panasonic	DN6837	
		DN6839	
♦ UGN3119	Siemens	SAS251	
	TI	TL172	
	TRWLSI	OHN3019	
UGN3120	TRWLSI	OHN3020	
		OH360	
UGN3130	National	DN6838	
	Panasonic	DN6838	
	TI	TL170	
	TRWLSI	OHN3030	
♦ UGN3131	Allegro Micro	UGN3132	
UGN3140	TRWLSI	OHN3040	
UGN3501	Allegro Micro	UGN3501	
	National	DN6835	
		DN6836	
	Panasonic	DN6835	
		DN6836	
UGN3503	TI	TL173	
UGS3019	TI	TL3019	
UGS3020	TI	TL3020	
♦ UGS3020	Allegro Micro	UGS3120	
♦ UGS3030	Allegro Micro	UGS3130	
♦ UGS3040	Allegro Micro	UGS3140	
♦ UGS3119	TRWLSI	OHS3019	
UGS3120	TRWLSI	OHS3020	
UGS3130	TRWLSI	OHS3030	
♦ UGS3131	Allegro Micro	UGS3132	
UGS3140	TRWLSI	OHS3040	
♦ UHP181	Allegro Micro	UDN5706	
♦ UHP400	Allegro Micro	UDN5706	
♦ UHP402	Allegro Micro	UDN5703	
♦ UHP406	Allegro Micro	UDN5706	
ULN2001	Ericsson	PBD352301	
	Exar	XR2001	
		XR2201	
	Linfinity Micro	SG2001	
	Mitsubishi	M54524	
	Motorola	MC1411	
		ULN2001	
	National	DS2001	
		9665	
	NEC	µPA2001	
	Philips	NE5601	
	Sanyo	LB1231	
	SGS-Thomson	L201	
		ULN2001	
	TI	ULN2001	
	Toshiba	TD62001	
		TD62101	
ULN2002	Linfinity Micro	SG2002	
	Motorola	MC1412	
	National	DS2002	
	SGS-Thomson	ULN2002	
♦ ULN2002	Ericsson	PBD352304	
	Exar	XR2002	
		XR2202	
♦ ULN2002	Mitsubishi	M54525	
	Motorola	MC1412	
		ULN2002	
♦ ULN2002	National	9666	
	NEC	µPA2002	
	Philips	NE5602	
	Sanyo	LB1232	
	SGS-Thomson	L202	
		ULN2002	
♦ ULN2002	TI	ULN2002	
	Toshiba	TD62002	
ULN2003	Ericsson	PBD352303	
	Exar	XR2003	
		XR2203	
	Linfinity Micro	SG2003	
	Mitsubishi	M54523	
	Motorola	MC1413	
		ULN2003	
	National	DS2003	
		9667	
	NEC	µPA2003	
	Philips	NE5603	
		ULN2003	
	Sanyo	LB1233	
	SGS-Thomson	L203	
		ULN2003	
	TI	ULN2003	
	Toshiba	TD62003	
		TD62103	
ULN2004	Ericsson	PBD352302	
	Exar	XR2004	
		XR2204	
	Linfinity Micro	SG2004	
	Mitsubishi	M54526	
	Motorola	MC1416	
		ULN2004	
	National	DS2004	
		9668	
	NEC	µPA2004	
	Philips	NE5604	
		ULN2004	
	Sanyo	LB1234	
	SGS-Thomson	L204	
		ULN2004	
	TI	ULN2004	
	Toshiba	TD62004	
		TD62104	
♦ ULN2005	Exar	XR2205	
	TI	ULN2005	
ULN2011	Linfinity Micro	SG2011	
♦ ULN2011	Exar	XR2011	
	Linfinity Micro	SG3851	
ULN2012	Linfinity Micro	SG2012	
♦ ULN2012	Exar	XR2012	
	Linfinity Micro	SG3852	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Allegro Micro Systems (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ULN2013	Exar	XR2013	
	Linfinity Micro	SG2013	
		SG3853	
ULN2014	Linfinity Micro	SG2014	
♦ ULN2014	Exar	XR2014	
	Linfinity Micro	SG3854	
ULN2021	Linfinity Micro	SG2021	
♦ ULN2021	Ericsson	PBD352311	
	Philips	NE5501	
	TI	SN75466	
ULN2022	Linfinity Micro	SG2022	
♦ ULN2022	Ericsson	PBD352314	
	Philips	NE5502	
	TI	SN75467	
ULN2023	Ericsson	PBD352313	
	Linfinity Micro	SG2023	
	Philips	NE5503	
	TI	SN75468	
ULN2024	Ericsson	PBD352312	
	Linfinity Micro	SG2-24	
	Philips	NE5504	
	TI	SN75469	
♦ ULN2025	TI	SN75465	
ULN2045	Linfinity Micro	SG3821	
ULN2046	GEC Plessey	SL3046	
		SL32046	
	Harris	CA3146	
♦ ULN2046	GEC Plessey	SL3046	
		SL3146	
♦ ULN2046	**Harris**	**CA3046**	**(3637)**
		CA3146	
♦ ULN2046	Linfinity Micro	SG3046	
		SG3146	
		SG3821	
♦ ULN2046	Motorola	MC3346	
	National	µA3046	
		LM3046	
♦ ULN2046	Sanyo	LA3046	
♦ ULN2054	GEC Plessey	SL3054	
	Harris	CA3054	
	Linfinity Micro	SG3822	
	National	µA3054	
		LM3054	
ULN2064	Linfinity Micro	SG2064	
	Mitsubishi	M2064	
		M54532	
	Motorola	ULN2064	
	SGS-Thomson	ULN2064	
	TI	SN75064	
		ULN2064	
	Toshiba	TD62064	
ULN2065	Linfinity Micro	SG2065	
	Mitsubishi	M2065	
	Motorola	ULN2065	
	SGS-Thomson	ULN2065	
	TI	SN75065	
		ULN2065	
ULN2066	Linfinity Micro	SG2066	
	SGS-Thomson	ULN2066	
♦ ULN2066	Linfinity Micro	SG2066	
	Motorola	ULN2066	
	SGS-Thomson	ULN2066	
	TI	SN75066	
		ULN2066	
ULN2067	Linfinity Micro	SG2067	
	SGS-Thomson	ULN2067	
♦ ULN2067	Linfinity Micro	SG2067	
	Motorola	ULN2067	
	SGS-Thomson	ULN2067	
			(Continued)
♦ ULN2067			(Cont'd)
	TI	SN75067	
		ULN2067	
ULN2068	Linfinity Micro	SG2068	
	Motorola	ULN2068	
	SGS-Thomson	ULN2068	
	TI	SN75068	
		ULN2068	
ULN2069	Linfinity Micro	SG2069	
	Motorola	ULN2069	
	SGS-Thomson	ULN2069	
	TI	SN75069	
		ULN2069	
ULN2070	Linfinity Micro	SG2070	
	SGS-Thomson	ULN2070	
♦ ULN2070	Linfinity Micro	SG2070	
	SGS-Thomson	ULN2070	
	TI	SN75070	
ULN2071	Linfinity Micro	SG2071	
	SGS-Thomson	ULN2071	
♦ ULN2071	Linfinity Micro	SG2071	
	SGS-Thomson	ULN2071	
	TI	SN75071	
ULN2074	Linfinity Micro	SG2074	
	SGS-Thomson	ULN2074	
♦ ULN2074	Linfinity Micro	SG2074	
	Motorola	ULN2074	
	SGS-Thomson	ULN2074	
	TI	SN75074	
		ULN2074	
♦ ULN2074	Toshiba	TD62074	
ULN2075	Linfinity Micro	SG2075	
	SGS-Thomson	ULN2075	
♦ ULN2075	Linfinity Micro	SG2075	
	Motorola	ULN2075	
	SGS-Thomson	ULN2075	
	TI	SN75075	
ULN2076	Linfinity Micro	SG2076	
	SGS-Thomson	ULN2076	
♦ ULN2076	Linfinity Micro	SG2076	
	SGS-Thomson	ULN2076	
	TI	SN75076	
ULN2077	Linfinity Micro	SG2077	
	SGS-Thomson	ULN2077	
♦ ULN2077	Linfinity Micro	SG2077	
	SGS-Thomson	ULN2077	
	TI	SN75077	
♦ ULN2081	GEC Plessey	SL3081	
	Harris	CA3081	
	Linfinity Micro	SG3081	
♦ ULN2082	GEC Plessey	SL3082	
	Harris	CA3082	
	Linfinity Micro	SG3082	
ULN2083	Harris	CA3083	
		CA3183	
♦ ULN2083	GEC Plessey	SL3083	
		SL3183	
♦ ULN2083	Harris	CA3083	
		CA3183	
♦ ULN2083	Linfinity Micro	SG3083	
		SG3183	
ULN2086	Harris	CA3086	
♦ ULN2086	GEC Plessey	SL3086	
	Harris	CA3086	
			(Continued)
♦ ULN2086			(Cont'd)
	Linfinity Micro	SG3086	
		SG3886	
♦ ULN2086	Motorola	MC3386	
	National	µA3086	
		LM3086	
♦ ULN2086	Sanyo	LA3086	
ULN2111	Harris	CA2111A	
♦ ULN2111	Harris	CA2111	
	Motorola	MC1357	
	National	LM2111	
	Philips	N5111	
	TI	SN76642	
		SN76643	
ULN2139	Motorola	MC1439	
ULN2151	Motorola	MC1741	
ULN2156	Motorola	MC1456	
ULN2157	Motorola	MC1456	
♦ ULN2204	AEG Corp	U417	
	Hitachi	HA12402	
	Toshiba	TA7613	
♦ ULN2240	Allegro Micro	ULN3840	
♦ ULN2243	Sanyo	LA1160	
ULN2260A	Harris	CA3154	
ULN2264	Motorola	MC13010	
♦ ULN2280	National	LM380	
♦ ULN2401	Allegro Micro	ULN2455	
ULN2429	Cherry Semi	CS166	
ULN2741	Motorola	MC1741	
ULN2747	Motorola	MC1747	
ULN2801	Ericsson	PBD353801	
	Motorola	ULN2801	
	SGS-Thomson	ULN2801	
	Toshiba	TD62081	
ULN2802	Motorola	ULN2802	
	SGS-Thomson	ULN2802	
♦ ULN2802	Ericsson	PBD353804	
	Motorola	ULN2802	
	SGS-Thomson	ULN2802	
	Toshiba	TD62082	
ULN2803	Allegro Micro	ULN2803	
	Ericsson	PBD353803	
	Motorola	ULN2803	
	SGS-Thomson	ULN2803	
	Toshiba	TD62083	
ULN2804	Ericsson	PBD353802	
	Motorola	ULN2804	
	SGS-Thomson	ULN2804	
	Toshiba	TD62084	
ULN2805	SGS-Thomson	ULN2805	
♦ ULN2805	SGS-Thomson	ULN2805	
♦ ULN2821	SGS-Thomson	L601	
♦ ULN2822	SGS-Thomson	L602	
ULN2823	SGS-Thomson	L603	
♦ ULN2824	SGS-Thomson	L604	
♦ ULN3008	Allegro Micro	UGN3501	
ULN3304M	Cherry Semi	CS102	
ULN3524	Philips	SG3524	
ULN3751	Linfinity Micro	SG3173	
	SGS-Thomson	L165	
	Siemens	TCA365	
♦ ULN3755	SGS-Thomson	L272	
	Toshiba	TA7272	
♦ ULN3783	Allegro Micro	ULN3782	
♦ ULN3784	National	LM384	
♦ ULN3809	Motorola	MC1309	
ULN3845	**Micrel**	**MIC38C45**	**(3685)**
		MIC38HC45	
ULN3859	Motorola	MC3359	
ULN3914A	Harris	CA3217	
ULN618	Philips	NE594	
ULN8124	Linfinity Micro	SG3524	
			(Continued)
ULN8125	Linfinity Micro	SG3525	
ULN8126	Linfinity Micro	SG3526	
ULN8127	Linfinity Micro	SG3527	
ULN8130	Linfinity Micro	SG3548	
	Unitrode	UC3903	
ULN8142	Philips	UC3842	
ULN8160	Philips	NE5560	
ULN8161	Philips	NE5561	
♦ ULN8163	Philips	NE5563	
ULN8168	Philips	NE5568	
ULN8194	TI	TL594	
ULN8195	TI	TL595	
ULN8564	Philips	NE564	
♦ ULQ2001	Exar	XR2001	
	Motorola	MC1411	
♦ ULQ2002	Exar	XR2002	
	Motorola	MC1412	
ULQ2003	Exar	XR2003	
	Motorola	MC1413	
ULQ2004	Exar	XR2004	
	Motorola	MC1416	
ULQ8124	Linfinity Micro	SG2524	
ULQ8125	Linfinity Micro	SG2525	
ULQ8126	Motorola	SG2526	
ULQ8127	Linfinity Micro	SG2527	
ULS2001	Linfinity Micro	SG2001	
♦ ULS2001	National	9665	
ULS2002	Linfinity Micro	SG2002	
♦ ULS2002	National	9666	
ULS2003	Linfinity Micro	SG2003	
♦ ULS2003	Linfinity Micro	JAN2003	
		SG2003	
♦ ULS2003	National	µA9667	
		9667	
ULS2004	Linfinity Micro	SG2004	
♦ ULS2004	Linfinity Micro	SG2004	
	National	9668	
ULS2011	Linfinity Micro	SG2011	
♦ ULS2011	Linfinity Micro	SG3851	
ULS2012	Linfinity Micro	SG2012	
♦ ULS2012	Linfinity Micro	SG3852	
ULS2013	Linfinity Micro	SG2013	
♦ ULS2013	Linfinity Micro	SG3853	
ULS2014	Linfinity Micro	SG2014	
♦ ULS2014	Linfinity Micro	SG3854	
ULS2021	Linfinity Micro	SG2021	
ULS2022	Linfinity Micro	SG2022	
ULS2023	Linfinity Micro	SG2023	
ULS2024	Linfinity Micro	SG2-24	
ULS2045	GEC Plessey	SL3145	
♦ ULS2045	GEC Plessey	SL3045	
		SL3145	
♦ ULS2045	Harris	CA3045	
	Linfinity Micro	SG3045	
		SG3821	
♦ ULS2045	National	µA3045	
		LM3045	
♦ ULS2045	Sanyo	LA3045	
ULS2139	Motorola	MC1539	
ULS2151	Motorola	MC1741	
ULS2156	Motorola	MC1556	
ULS2157	Motorola	MC1558	
ULS2801	Linfinity Micro	SG2801	
ULS2802	Linfinity Micro	SG2802	
ULS2803	Linfinity Micro	SG2803	
		SG2813	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Allegro Micro Systems (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ULS2804	Linfinity Micro	SG2804	
ULS2811	Linfinity Micro	SG2811	
ULS2812	Linfinity Micro	SG2812	
ULS2814	Linfinity Micro	SG2814	
ULS2821	Linfinity Micro	SG2821	
ULS2822	Linfinity Micro	SG2822	
ULS2823	Linfinity Micro	SG2823	
ULS2824	Linfinity Micro	SG2824	
ULS8124	Linfinity Micro	SG1524	
ULS8125	Linfinity Micro	SG1525	
ULS8126	Linfinity Micro	SG1526	
	Motorola	SG1526	
ULS8127	Linfinity Micro	SG1527	
ULX8161	Motorola	MC34060	
♦ US7438	Allegro Micro	UDN5706	
21C14	Krueger	21C14-150	
		21C14-200	
		21C14-450	
♦ 74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	(3836)
	Universal	US74HC161	

Altera

Manufacturer Device	Replacement Source	Device	IC Master Page
EL610	Intel	PLD610	
E0910	ILSI	CME1201	
EPM5016	ILSI	CME1201	
EPM5024	ILSI	CME1201	
EPM5032	Cypress	CY7C344	
	ILSI	CME1201	
EPM5064	Cypress	CY7C343	
	ILSI	CME1202	
EPM5128	Cypress	CY7C342	
EPM5192	Cypress	CY7C341	
	ILSI	CME1204	
EPM7128	ILSI	CME1204	
EPM7192	ILSI	CME1204	
EP1800	ILSI	CME1202	
	Intel	5C180	
EP1810	ILSI	CME1202	
EP310	ILSI	CME1201	
	Intel	5C031	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
EP320	ILSI	CME1201	
	Intel	5C032	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
EP330	Intel	85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
EP512	ILSI	CME1201	
EP600	ILSI	CME1201	
	Intel	PLD610	
		5C060	
EP610	Cypress	PLD610	
	ILSI	CME1201	
	Intel	5C060	
	TI	EP630	
EP610A	Cypress	PLD610	
EP630	Intel	PLD610	
		5C060	
	TI	EP630	
EP900	ILSI	CME1201	
	Intel	5C090	
EP910	Intel	PLD910	
		5C090	
MPM5032	Cypress	CY7C344	
MPM5064	Cypress	CY7C343	
MPM5128	Cypress	CY7C342	
MPM5192	Cypress	CY7C341	

(Continued)

American Microsystems

Manufacturer Device	Replacement Source	Device	IC Master Page
GA1000D	SGS-Thomson	GA1000D	
GA2000D	SGS-Thomson	GA2000D	
GA3000D	SGS-Thomson	GA3000D	
GA4000D	SGS-Thomson	GA4000D	
MV3506	American Micro	S3506	
PEEL153	AMD	PAL10L8	
	American Micro	**PEEL253**	(3503)
	ICT	PEEL153	
		PEEL253	
	Lattice	GAL18V10	
	Philips	PLC153	
		PLS153	
PEEL173	AMD	PAL12L16	
	American Micro	**PEEL273**	(3503)
	ICT	PEEL173	
		PEEL273	
	Lattice	20V8	
	Philips	PLS173	
PEEL18CV8	ICT	PEEL18CV8	
	Lattice	16CV8	
	Philips	PLHS18P8	
	TI	TICPAL18V8	
PEEL20CG10	Cypress	PALC20G10	
	ICT	PEEL20CG10	
PEEL22CV10	ICT	PEEL22CV10	
♦ PEEL22CV10	AMD	AMPAL22V10	
		AMPAL22V10A	
		PALCE22V10	
♦ PEEL22CV10	ATMEL	AT22V10	
		AT22V210	
♦ PEEL22CV10	Cypress	PALC22V10	
	ICT	PEEL22CV10	
	Lattice	GAL22V10	
	National	GAL22V10	
	TI	TIBPAL22V10	
		TIBPAL22V10A	
		TICPAL22V10	
PEEL22CV10Z	ICT	PEEL22CV10Z	
PEEL253	**American Micro**	**PEEL153**	(3503)
	ICT	PEEL253	
PEEL273	American Micro	PEEL173	
	ICT	PEEL273	
S2114	AMD	AM91L14	
S2364	Hughes	H23C64	
		H23C65	
S25089	Samsung	KS5808	
	UMC	UM95089	
♦ S25089	AMD	AM27S181	
	Cypress	CY7C282M	
	Hitachi	HN25089	
	Lansdale	HL7681	
	National	DM77LS181	
		DM77S181	
		DM77S281	
		DM87S181	
		DM87S281	
		932451	
♦ S25089	Philips	N82S181	
		S82S181	
♦ S25089	Raytheon	29631	
	STC	ST5C5089	
	TI	28586-60	
S2559	Samsung	KS58528	
		KS58529	
		KS58530	
		KS58531	
		KS58532	
		KS58533	
		KS58534	
		KS58535	
		KS58536	
		KS58537	
		KS58538	
		KS58539	
	UMC	UM9559	
S2560	GEC Plessey	TDA2560	
	National	TDA2560	
S2560			(Cont'd)
	Samsung	KS5805	
		KS5805A	
	SGS-Thomson	MK50992	
		M2560	
	Sharp	LR40992	
	UMC	UM9151	
S25610	UMC	91611	
S25910	UMC	UM91261	
S2859	UMC	UM95088	
S2860	UMC	UM95088	
S3506	American Micro	MV3506	
	GEC Plessey	MV3506	
S3507	GEC Plessey	MV3507	
♦ S35212A	EG&G-Reticon	RM5632A	
		R5632	
♦ S35212A	Exar	XR2126	
		XR2127	
♦ S35212A	Hitachi	HA17815	
	Mitel	MT35212A	
	Sierra	SC11000	
		SC11005	
S3525A	American Micro	S3525B	
S3525B	American Micro	S3525A	
S3528	Exar	XR1016	
S3541	Exar	XR1020	
S4264	Hughes	H23C64	
		H23C65	
S4520	American Micro	S4521	
	Holt	HI8020	
	Micrel	MIC8010	
♦ S4520	American Micro	S4521	
	Holt	HI8011	
		HI8020	
♦ S4520	Micrel	MIC8011	
S4521	Holt	HI8011	
		HI8020	
	Hughes	H0438	
	Micrel	MIC8011	
S4534	Allegro Micro	UCN5801	
		UCN5810	
	Philips	HEF4534	
	TI	UCN4810A	
		UL4810	
S4535	Allegro Micro	UCN5818	
	TI	SN75518	
♦ S5012	Crystal	C55012	
♦ S5014	Analogic	ADC3202	
	Crystal	CS5014	
♦ S5016	Analogic	ADC4202	
		ADC4203	
♦ S5016	Crystal	CS5016	
S5101	Hughes	H1822	
S5114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
♦ S5412	Crystal	CS5412	
S65C51	Mitel	MD65SC51B	
	Rockwell	**R65C51**	(3759)
S6551	Commodore	MPS6551	
		MP6551	
	Harris	HM6551	
	Panasonic	AN6551	
	Rockwell	**R6551**	(3759)
	UMC	UM6551	
S6800	Krueger	6800	
S6809	Krueger	6809	
S6809E	Krueger	6809E	
S6850	SMC	COM8017	
S6852	SMC	COM5025	
♦ S7720	NEC	µPD7720	
S8981	Hitachi	HA17805	
	Mitel	MT8981	
525089	GEC Plessey	MV5089	

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Analog Devices

Manufacturer Device	Replacement Source	Device	IC Master Page
	AD	**AD7628**	(3517)
	Maxim	AD7628	
ADADC80	Burr-Brown	ADC80	
	Harris	HI574	
	MicroNet	ADC80	
ADADC84	Burr-Brown	ADC84	
	Harris	HI674	
		HI774	
ADADC85	Burr-Brown	ADC85	
		ADC85H	(347
	Harris	HI674	
		HI774	
	MicroNet	ADC85	
	Sipex	HSADC85	
ADADC85S	**MicroNet**	**ADC87**	(369
ADA724	National	DAC0831	
ADCEK12	TI	ICL7135	
		TLC7135	
		TL500	
		TL501	
		TL503	
ADC032	LinearTech	LTC1091	
ADC0820	LinearTech	LTC1099	
ADC0820BC	MicroLinear	ML2261BC	
		ML2261BI	
ADC0820C	MicroLinear	ML2261CM	
ADC0820CC	MicroLinear	ML2261CC	
		ML2261CI	
ADC09820	MicroPwr	MP0820	
♦ ADC1121	AD	AD7550	
ADC574	MicroPwr	MP574	
ADC674	MicroPwr	MP674	
ADC774	MicroPwr	MP774	
ADC816	GEC Plessey	ZN503	
ADC82	TI	ADC0820	
		TLC0820	
ADC84	MicroNet	ADC84	
ADC85	MicroNet	ADC85	
ADC884	GEC Plessey	ZN503	
ADC89	GEC Plessey	ZN427	
ADC908	AD	AD7574	
	Maxim	AD7574	
		MAX160	
	MicroPwr	MP7574	
ADC910	AD	AD571	
		AD573	
	National	ADC1005	
		ADC1025	
ADDAC08	Motorola	DAC08	
	National	DAC0800	
		DAC0801	
		DAC0802	
ADDAC71	Burr-Brown	DAC700	
		DAC703	
		DAC71	
	Harris	ICL7121	
	MicroNet	MN3290	
ADDAC72	Burr-Brown	DAC700	
		DAC703	
		DAC72	
	Harris	ICL7121	
ADDAC80	Burr-Brown	DAC80	
	Harris	HIDAC80	
	MicroNet	DAC80	
ADDAC85	Burr-Brown	DAC85	
		DAC85H	
	Harris	HIDAC85	
	MicroNet	DAC85	
	Sipex	SPDAC87	
ADDAC87	Burr-Brown	DAC87	
		DAC87H	
	MicroNet	**DAC87**	(369
	Sipex	SPDAC87	
ADG200	Siliconix	DG200	
	Unitrode	PIC7513	
ADG201	Harris	DG201	
		HI0201	
		HI201	
	LinearTech	LTC201	
	Maxim	DG201	
	Siliconix	DG201	
		DG271	
		DG441	
	TeledyneC	CDG201	
ADG201HS	Harris	HI201HS	
ADG202	Harris	DG202	
	Maxim	DG202	
	Siliconix	DG442	
ADG211	Harris	DG211	
	Maxim	DG211	
	Siliconix	DG211	
		DG444	
ADG212	Harris	DG212	
	Maxim	DG212	
	Siliconix	DG212	
		DG445	
ADG221	Siliconix	DG221	
ADG222	Siliconix	DG222	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
ADG405	Harris	DG506A	
ADG408	Siliconix	DG408	
ADG409	Siliconix	DG409	
ADG411	Siliconix	DG411	
ADG412	Siliconix	DG412	
ADG441	Siliconix	DG441	
ADG442	Siliconix	DG442	
ADG444	Siliconix	DG444	
ADG445	Siliconix	DG445	
ADG506	Harris	DG506	
		DG506A	
		HI0506	
		HI506	
	Maxim	DG506	
	Siliconix	DG406	
		DG506	
ADG507	Harris	DG507	
		DG507A	
		HI0507	
		HI507	
	Maxim	DG507	
	Siliconix	DG407	
		DG507	
ADG508	Harris	DG508	
		DG508A	
		HI0508	
		HI508	
	Maxim	DG508	
	Siliconix	DG408	
		DG508	
ADG509	Harris	DG509	
		DG509A	
		HI0509	
		HI509	
	Maxim	DG509	
	Siliconix	DG409	
		DG509	
ADG526	Harris	DG526	
ADG527	Harris	DG527	
ADG528	Harris	DG528	
	Siliconix	DG428	
		DG528	
ADG529	AD	DG529	
	Harris	DG529	
	Siliconix	DG429	
		DG529	
ADG9048	Harris	HI5700	
ADI376	Burr-Brown	ADC676	
ADLH0032	Burr-Brown	OPA605	
	Elantec	EL2006	
	National	LH0032	
ADLH0033	Elantec	ELH0033	
		EL2004	
	Maxim	LH0033	
	National	LH0033	
ADOP07	AD	OPA27	
		OP07	
	Burr-Brown	OPA177	
	LinearTech	LT1001	
		OP07	
	Maxim	OP07	
	National	LM607	
	Raytheon	OP07	
ADOP27	AD	OPA27	
		OP27	
	Burr-Brown	OPA27	
	Harris	HA5127	
	LinearTech	OP27	
ADOP37	AD	OP37	
	Burr-Brown	OPA37	
	Harris	HA5137	
ADP501	AD	ADP511	
ADREF01	**AD**	**REF01**	**(3536)**
	Burr-Brown	**REF102**	**(3467)**
	Maxim	REF01	
ADREF02	AD	REF02	
ADSHM5	AD	HTC0300	
ADSP1009	LogicDev	LMA1009	
		LMA2009	
		LMU2009	
ADSP1010	Harris	HMA510	
	IDT	IDT7210	
	LogicDev	LDI2010	
		LMA1010	
	Waferscale	WS59510	
ADSP1012	LogicDev	LMU12	
ADSP1016	IDT	IDT7216	
	LogicDev	LMU16	
		LMU216	
ADSP1017	LogicDev	LMU17	
		LMU217	
ADSP1024	LogicDev	LMU18	
ADSP1080	LogicDev	LMU08	
ADSP1081	LogicDev	LMU8	
		LMU8U	
ADSP1101	LogicDev	LDI2010	
		LMA1010	
ADSP1110	LogicDev	LDI2010	
		LMA1010	
ADSP7C901	Cypress	CY7C910	
ADS7800	LinearTech	LTC1272	
ADVFC32	**Burr-Brown**	**VFC32**	**(3472)**
ADV473	Raytheon	TMC0473	
ADV478	Raytheon	TMC0478	
AD0042	National	LH0042	
AD0674	Sipex	SP674	
AD100	National	DAC1020	
AD101	LinearTech	LM101	
	National	LM101	
AD1148	Sipex	SP1148	
AD1376	Burr-Brown	PCM75	
	Sipex	HS9576	
AD1403	**AD**	**REF43**	**(3536)**
	Motorola	MC1403	
AD1408	AD	DAC08	
		DAC1408	
	GEC Plessey	ZN429	
	Motorola	MC1408	
AD1508	GEC Plessey	ZN429	
	Motorola	MC1508	
	Raytheon	DAC08	
AD1674	Signal Proc	SPT774	
AD1856	**Burr-Brown**	**PCM56**	**(3468)**
AD1860	**Burr-Brown**	**PCM61**	**(3468)**
AD200	Siliconix	DG200	
♦ AD2003	AD	AD2021	
AD201	National	LM210	
	Siliconix	DG411	
AD202	**Burr-Brown**	**ISO103**	**(3464)**
		ISO113	**(3464)**
		ISO212	
	Harris	DG202	
AD204	**Burr-Brown**	**ISO103**	**(3464)**
		ISO113	**(3464)**
		ISO212	
AD208	Burr-Brown	ISO212	
AD210	**Burr-Brown**	**ISO107**	**(3464)**
		ISO113	**(3464)**
AD230	Sipex	SP230	
AD231	Sipex	SP231	
AD232	Harris	ICL232	
	LinearTech	LT1081	
	Sipex	SP232	
AD233	Sipex	SP233	
AD234	Sipex	SP234	
AD235	LinearTech	LT1130	
	Sipex	SP235	
AD236	Sipex	SP236	
AD237	LinearTech	LT1138	
	Sipex	SP237	
AD238	LinearTech	LT1139	
	Sipex	SP238	
AD239	LinearTech	LT1137	
	Sipex	SP239	
AD241	LinearTech	LT1136	
	Sipex	SP241	
AD2700	**Burr-Brown**	**REF102**	**(3467)**
	GEC Plessey	ZNREF100	
	Maxim	MX2700	
	Sipex	HS2700	
	Thaler	VRE100	
AD2701	**Burr-Brown**	**REF102**	**(3467)**
	GEC Plessey	ZNREF100	
	Maxim	MX2701	
	Sipex	HS2701	
	Thaler	VRE101	
AD2702	**Burr-Brown**	**REF102**	**(3467)**
	GEC Plessey	ZNREF100	
	Sipex	HS2702	
	Thaler	VRE102	
AD2710	**Burr-Brown**	**REF102**	**(3467)**
	GEC Plessey	REF100	
		ZNREF100	
	Thaler	VRE100	
AD2712	**Burr-Brown**	**REF102**	**(3467)**
AD2720	GEC Plessey	REF100	
		ZNREF100	
AD289	**Burr-Brown**	**ISO100**	**(3463)**
AD293	AD	3656	
AD294	AD	3656	
AD295	AD	3656	
AD301	Motorola	LM301	
	National	LM301	
AD302	Siliconix	DG302	
AD303	Siliconix	DG303	
AD346	AD	SHC804	
	MicroNet	**MN346**	**(3693)**
	Sipex	HS346	
AD3542	National	LH0042	
AD3554	**Burr-Brown**	**3554**	**(3459)**
	Harris	HFA0001	
	Maxim	BB3554	
		MX3554	
AD362	Sipex	HS362	
♦ AD362	AD	AD1362	
AD363	AD	SDM856	
AD364	Sipex	HS362	
		HS574	
AD370	**MicroNet**	**MN370**	**(3692)**
AD371	MicroNet	MN371	
AD376	Burr-Brown	ADC676	
		ADC76	
	GEC Plessey	ZN427	
	Sipex	HS9576	
♦ AD376	**AD**	**AD1376**	**(3510, 3538)**
AD380	Burr-Brown	OPA605	
	Elantec	EL2006	
AD381	Burr-Brown	OPA606	
	Elantec	EL2006	
	LinearTech	LT1022	
AD382	Burr-Brown	OPA605	
	Elantec	EL2006	
AD3860	Burr-Brown	DAC811	
	MicroNet	**MN3860**	**(3692)**
	Sipex	HS3860	
AD389	**Burr-Brown**	**SHC76**	**(3471)**
	Harris	HA5320	
	MicroNet	**MN374**	**(3693)**
	Sipex	HS9714	
AD401	Sipex	SP301	
AD402	Sipex	SP302	
AD452	Raytheon	RC4152	
♦ AD501	AD	AD711	
AD5010	GEC Plessey	ZN440	
		ZN441	
♦ AD5010	AD	AD9000	
♦ AD502	AD	AD711	
AD503	AD	OP41	
	Burr-Brown	OPA121	
AD505	Motorola	MC1776	
♦ AD505	AD	AD509	
AD506	AD	OP41	
	Burr-Brown	OPA121	
	Motorola	MC1776	
AD507	Burr-Brown	3507	
	Harris	HA2620	
		HA2625	
♦ AD508	AD	AD517	
AD509	AD	OP44	
	Burr-Brown	3507	
	Elantec	EHA2520	
		EHA2525	
	Harris	HA2520	
	Motorola	LM101	
		LM301	
	National	LH0003	
AD510	Burr-Brown	OPA27	
	LinearTech	LT1001	
		OP07	
	TI	OP07	
♦ AD511	AD	AD711	
♦ AD512	AD	AD711	
♦ AD513	AD	AD711	
♦ AD514	AD	AD711	
AD515	AD	OP80	
	Burr-Brown	AD515	
♦ AD516	AD	AD711	
AD517	AD	OP77	
	LinearTech	LT1001	
		OP07	
	Maxim	LT1001	
		MAX400	
	TI	OP07	
AD518	AD	OP42	
	Elantec	EHA2515	
	Harris	HA2510	
		HA2515	
	LinearTech	LM118	
		LT118	
	Motorola	LM101	
		LM301	
♦ AD520	AD	AD524	
		AD711	
AD5200	**MicroNet**	**MN5200**	**(3690)**
AD5202	**MicroNet**	**MN5202**	**(3690)**
AD5203	**MicroNet**	**MN5203**	**(3690)**
AD5204	**MicroNet**	**MN5204**	**(3690)**
AD5205	**MicroNet**	**MN5205**	**(3690)**
AD5206	**MicroNet**	**MN5206**	**(3690)**
AD521	**AD**	**AMP01**	**(3520)**
	Burr-Brown	INA101	
	National	LH0036	
AD5210	**MicroNet**	**MN5210**	**(3690)**
	Sipex	HS5210	
AD5211	**MicroNet**	**MN5211**	**(3690)**
	Sipex	HS5211	
AD5212	**MicroNet**	**MN5212**	**(3690)**
	Sipex	HS5212	
AD5213	**MicroNet**	**MN5213**	**(3690)**
	Sipex	HS5213	
AD5215	**MicroNet**	**MN5215**	**(3690)**
	Sipex	HS5215	
AD5216	Sipex	HS5216	
AD522	**AD**	**AMP01**	**(3520)**
♦ AD523	AD	AD549	
AD524	**AD**	**AMP01**	**(3520)**
	Burr-Brown	INA101	
		INA102	
		INA110	
	LinearTech	LT1101	
AD5240	Burr-Brown	ADC84	
		ADC85	
	Harris	HI774	
AD530	Motorola	MC1595	
AD531	Motorola	MC1595	
AD532	**Burr-Brown**	**MPY100**	**(3466)**
	Motorola	MC1595	
AD534	**Burr-Brown**	**MPY534**	**(3466)**
AD536	AD	SSM2110	
	Maxim	MX536	
AD537	National	LM331	
	Raytheon	RC4153	
AD539	Raytheon	RC4200	
		RC4200A	
AD542	AD	OP41	
	Harris	HA5170	
AD544	AD	OP43	
	Burr-Brown	OPA606	
AD545	AD	OP41	
	Burr-Brown	OPA111	
		OPA121	
AD546	Burr-Brown	OPA121	
♦ AD546	AD	AD711	
AD548	National	LF441	
AD5539	Philips	NE5539	
♦ AD555	AD	AD7519	
AD558	GEC Plessey	ZN558	
AD562	AD	PM562	
	Harris	HI562	
	National	DAC1266	
AD563	National	DAC1265	
AD565	Harris	HI565	
		HI565A	
	Maxim	MX565	
AD566	Maxim	MX566	
	National	DAC1265	
		DAC1266	
AD567	National	DAC1230	
AD570	GEC Plessey	ZN448	
AD571	AD	ADC910	
	GEC Plessey	ZN501	
		ZN502	
	Harris	CA3310	
		HI7151	
		HI7152	
AD573	AD	ADC910	
	GEC Plessey	ZN501	
		ZN502	
	Harris	CA3310	
		HI7151	
		HI7152	
	National	ADC1005	
AD574	Burr-Brown	ADC574	
	Harris	HI574	
	Maxim	MX574	
	MicroPwr	MP574	
	Signal Proc	HADC574	
	Sipex	HS574	
AD574A	MicroNet	MN574A	
	Signal Proc	HADC574Z	
AD575	GEC Plessey	ZN503	
		ZN504	
AD578	Maxim	MX578	
AD579	GEC Plessey	ZN501	
		ZN502	
AD580	**AD**	**REF43**	**(3536)**
	GEC Plessey	REF25	
		ZNREF025	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Analog Devices (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
AD580			(Cont'd)
	LinearTech	LT580	
	Maxim	MX580	
	MicroPwr	MP5010	
	Motorola	MC1403	
		MC1503	
AD581	**AD**	**REF01**	**(3536)**
		REF10	
	Burr-Brown	**REF102**	**(3467)**
	GEC Plessey	REF100	
		ZNREF100	
	LinearTech	LT1031	
		LT581	
	Maxim	MX581	
	National	LH0070	
	Raytheon	REF01	
AD582	AD	SMP10	
	Burr-Brown	**SHC5320**	**(3471)**
	National	LF398	
AD583	AD	SMP10	
	Burr-Brown	**SHC5320**	**(3471)**
	Harris	HA2425	
	National	LF198	
AD584	**Burr-Brown**	**REF102**	**(3467)**
	Maxim	MX584	
AD585	**Burr-Brown**	**SHC5320**	**(3471)**
AD586	LinearTech	LT1027	
AD587	**Burr-Brown**	**REF102**	**(3467)**
AD588	National	LM369	
AD589	GEC Plessey	REF12	
	Harris	ICL8069	
	Lin Int Sys	LS5010	
	LinearTech	LT1034	
	Maxim	ICL8069	
	MicroPwr	MP5010	
	Motorola	LM385	
	National	LM185	
		LM385	
AD590	Harris	AD590	
	National	LM134	
		LM135	
		LM34	
		LM35	
AD6012	AD	DAC312	
AD6020	GEC Plessey	ZN440	
		ZN441	
♦ AD6020	AD	AD9000	
AD606	Burr-Brown	INA101	
AD611	AD	OP15	
	National	LF411	
♦ AD612	AD	AD524	
♦ AD614	AD	AD524	
AD620	Burr-Brown	INA114	
AD624	**AD**	**AMP01**	**(3520)**
	Burr-Brown	INA101	
		INA102	
		INA110	
AD625	**AD**	**AMP01**	**(3520)**
	Burr-Brown	INA101	
AD636	Maxim	MX636	
AD642	AD	OP215	
	LinearTech	LT1057	
AD644	AD	OP215	
AD645	Burr-Brown	OPA111	
AD647	LinearTech	LT1057	
AD650	National	LM331	
AD651	**Burr-Brown**	**VFC100**	**(3472)**
	National	LM331	
AD652	Burr-Brown	VFC101	
AD654	National	LM331	
AD667	**Burr-Brown**	**DAC667**	**(3469)**
AD670	GEC Plessey	ZN427	
AD673	GEC Plessey	ZN448	
	National	ADC0841	
AD674	Burr-Brown	ADC674	
	Harris	HI674	
	Maxim	MX674	
	MicroPwr	MP674	
	Signal Proc	HADC674	
	Sipex	SP674	
AD674A	MicroNet	MN674	
		MN674A	
	Signal Proc	HADC674Z	
AD704	Burr-Brown	OPA404	
AD705	Burr-Brown	OPA177	
	LinearTech	LT1097	
AD706	Burr-Brown	OPA2111	
AD707	AD	OP177	
		OP77	
			(Continued)
AD707			(Cont'd)
	Burr-Brown	OPA177	
	LinearTech	LT1097	
	Raytheon	RC4077	
AD708	AD	OP200	
	Burr-Brown	**OPA1013**	**(3457)**
♦ AD710	Lansdale	ML1710	
AD711	AD	OP16	
	Burr-Brown	**OPA602**	**(3457, 3459)**
		OPA604	**(3458)**
	LinearTech	LT1056	
AD712	AD	OP215	
	Burr-Brown	**OPA2107**	**(3457, 3459)**
		OPA2604	
	LinearTech	LT1057	
	TI	TLE2082A	
AD713	Burr-Brown	OPA404	
	LinearTech	LT1058	
AD7224	AD	PM7224	
	GEC Plessey	ZN438	
	Maxim	MX7224	
AD7225	AD	DAC8408	
	Maxim	MAX505	
		MX7225	
AD7226	AD	PM7226	
	Maxim	MAX506	
		MX7226	
	MicroPwr	MP7226	
AD7228	Maxim	MX7228	
	MicroPwr	MP7228	
AD7245	Maxim	MX7245	
AD7248	Maxim	MX7248	
AD7250	MicroPwr	MP7633	
AD734	**Burr-Brown**	**MPY600**	**(3466)**
AD736	**Burr-Brown**	**4341**	**(3465)**
AD737	**Burr-Brown**	**4341**	**(3465)**
AD741	AD	OP02	
	Burr-Brown	OPA177	
	Motorola	MC1741	
	National	LM741	
AD743	**Burr-Brown**	**OPA627**	**(3457, 3459)**
AD744	AD	OP42	
	Burr-Brown	OPA605	
		OPA627	**(3457, 3459)**
	LinearTech	LT1122	
AD746	**Burr-Brown**	**OPA2107**	**(3457, 3459)**
AD7501	AD	MUX08	
	Maxim	MX7501	
	Siliconix	DG501	
	Unitrode	PIC7501	
AD7502	AD	MUX24	
	Maxim	MX7502	
	National	LF13509	
	Unitrode	PIC7502	
AD7503	AD	MUX08	
	Maxim	MX7503	
	Siliconix	DG503	
AD7506	AD	MUX16	
	Burr-Brown	HI506A	
		MPC16	
		MPC506	
	Harris	DG506	
		DG506A	
		HI506	
	Maxim	MX7506	
	Siliconix	DG506	
AD7507	AD	MUX28	
	Burr-Brown	HI507A	
		MPC507	
		MPC8	
	Harris	DG507	
		DG507A	
		HI507	
	Maxim	MX7507	
	Siliconix	DG507	
AD7508	Siliconix	DG508	
AD7509	Siliconix	DG509	
AD7510	AD	SW7510	
	Unitrode	PIC7510	
AD7511	AD	SW7511	
	Harris	HI201	
	Unitrode	PIC7511	
AD7512	Harris	HI5043	
	TI	TL182	
	Unitrode	PIC7512	
AD7516	National	CD4066	
♦ AD7516	AD	AD7510	
			(Continued)
AD7520	AD	PM7533	
	Harris	AD7520	
	Maxim	MX7520	
	MicroPwr	MP7520	
	Raytheon	DAC10	
	TI	AD7533	
		TLC7533	
	Unitrode	PIC7533	
AD7521	AD	PM7521	
		PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7521	
	Maxim	MX7521	
	MicroPwr	MP7521	
		MP7623	
AD7522	MicroPwr	MP7522	
	Unitrode	PIC7522	
AD7523	AD	PM7524	
	GEC Plessey	ZN429	
	Harris	AD7523	
	Maxim	MX7523	
	MicroPwr	MP7523	
	Unitrode	PIC7523	
AD7524	AD	PM7524	
	GEC Plessey	ZN428	
		ZN558	
	Maxim	MX7524	
	MicroPwr	MP7524	
	TI	AD7524	
		TLC7524	
AD7528	AD	PM7528	
	Maxim	MX7528	
	MicroPwr	MP7528	
	Sipex	HS7528	
		HS7541	
	TI	AD7528	
		TLC7528	
AD7530	AD	PM7533	
	Harris	AD7530	
	Maxim	MX7530	
	MicroPwr	MP7530	
		MP7633	
	National	DAC1020	
	Raytheon	DAC10	
	Unitrode	PIC7533	
AD7531	AD	PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7531	
	Maxim	MX7531	
	MicroPwr	MP7531	
		MP7623	
AD7533	AD	PM7533	
	Harris	AD7533	
	Maxim	MX7533	
	MicroPwr	MP7533	
	National	DAC1020	
		DAC1021	
		DAC1022	
	Raytheon	DAC10	
	TI	AD7533	
		TLC7533	
	Unitrode	PIC7533	
AD7534	Maxim	MX7534	
AD7535	Maxim	MX7535	
AD7536	Maxim	MX7536	
AD7537	AD	DAC8248	
	Maxim	MX7537	
AD7538	Maxim	MX7538	
	Sipex	SP7538	
AD7541	AD	DAC1122	
		PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7541	
	Maxim	MX7541	
	MicroPwr	MP7541	
	National	DAC1218	
		DAC1219	
	Sipex	HS7541	
AD7542	AD	PM7542	
	Maxim	MX7542	
	MicroPwr	MP7542	
	National	DAC1208	
		DAC1209	
		DAC1210	
AD7542A	Signal Proc	HDAC7542A	
AD7543	AD	PM7543	
	Maxim	MX7543	
	MicroPwr	MP7543	
	Signal Proc	HDAC7543	
AD7543A	Signal Proc	HDAC7543A	
AD7545	AD	PM7545	
	Burr-Brown	**DAC7545**	**(3469)**
	Harris	AD7545	
			(Continued)
AD7545			(Co
	Maxim	MX7545	
	MicroPwr	MP7545	
	National	DAC1208	
		DAC1209	
		DAC1210	
	Sipex	HS7545	
AD7547	AD	DAC8212	
		DAC8222	
	Maxim	MX7547	
AD7548	AD	PM7548	
	Maxim	MX7548	
	National	DAC1230	
		DAC1231	
		DAC1232	
AD7549	Maxim	MX7549	
AD7552	National	ADC1225	
AD7571	GEC Plessey	ZN503	
		ZN504	
	National	ADC1005	
		ADC1025	
AD7572	LinearTech	LTC1272	
	Maxim	MAX162	
		MAX172	
		MX7572	
AD7574	AD	ADC908	
		PM7574	
	GEC Plessey	ZN427	
		ZN448	
	Maxim	MAX160	
		MX7574	
	MicroPwr	MP7574	
AD7575	Maxim	MX7575	
	National	ADC0820	
AD7576	GEC Plessey	ZN448	
		ZN449	
	Maxim	MX7576	
	National	ADC0820	
AD7578	Maxim	MAX178	
		MX7578	
	National	ADC1205	
		ADC1225	
AD7579	Harris	CA3310	
		HI7151	
AD7580	Harris	CA3310	
		HI7151	
		HI7152	
AD7581	GEC Plessey	ZN437	
	Maxim	MAX161	
		MX7581	
	MicroPwr	MP7581	
AD7582	Maxim	MAX182	
		MX7582	
AD7589	Harris	HI7152	
AD7590	Unitrode	PIC7511	
AD7591	Unitrode	PIC7511	
AD7592	Unitrode	PIC7512	
AD7628	AD		
	Maxim	MX7628	
	MicroPwr	MP7529A	
AD7645	AD	PM7645	
AD7672	Maxim	MX7672	
AD7701	Crystal	CS5501	
AD7703	Crystal	CS5503	
AD774	Harris	HI774	
	MicroNet	MN774	
	MicroPwr	MP774	
	Signal Proc	SPT774	
AD7820	Crystal	CS7280	
	GEC Plessey	ZN439	
	LinearTech	LTC1099	
	Maxim	MX7820	
	MicroPwr	MP0820	
	National	ADC0820	
	Philips	ADC0820	
	TI	ADC0820	
		TLC0820	
AD7820B	MicroLinear	ML2261CI	
AD7820C	MicroLinear	ML2261BI	
AD7820K	MicroLinear	ML2261CC	
AD7820L	MicroLinear	ML2261BC	
AD7820T	MicroLinear	ML2261CM	
AD7820U	MicroLinear	ML2261BM	
AD7821	Maxim	MAX153	
		MX7821	
AD7824	Maxim	MAX154	
		MX7824	
AD7824B	MicroLinear	ML2264CI	
AD7824C	MicroLinear	ML2264BI	
AD7824K	MicroLinear	ML2264CC	
AD7824L	MicroLinear	ML2264BC	
AD7824T	MicroLinear	ML2264CM	
AD7824U	MicroLinear	ML2264BM	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
7828	Maxim	MAX158	
		MX7828	
7845	Maxim	MAX502	
		MX7845	
7875	Harris	HI5812	
790	LinearTech	LT1016	
811	Harris	HA5020	
820	**AD**	**MAT03**	**(3542)**
821	**AD**	**MAT03**	**(3542)**
	Harris	CA5160	
	LinearTech	LT1006	
822	LinearTech	LT1013	
824	LinearTech	LT1014	
827	Elantec	EL2244	
834	**Burr-Brown**	**MPY600**	**(3466)**
840	Harris	HA2840	
	LinearTech	LT1222	
841	Harris	HA2541	
		HA2841	**(3637)**
	LinearTech	LT1220	
842	Harris	HA2542	
		HA2842	**(3637)**
	LinearTech	LT1221	
844	**Burr-Brown**	**3554**	**(3459)**
	Harris	HA5020	
	LinearTech	LT1223	
845	**Burr-Brown**	**OPA637**	**(3457, 3459)**
	LinearTech	LT1122	
846	**AD**	**OP260**	**(3512, 3530)**
	Harris	HA5004	
		HA5020	
	LinearTech	LT1223	
847	**Harris**	**HA2544**	**(3637)**
	LinearTech	LT1190	
		LT1191	
		LT1224	
	National	LM6161	
848	LinearTech	LT1191	
		LT1192	
		LT1225	
	National	LM6164	
849	LinearTech	LT1192	
		LT1226	
	National	LM6165	
8531	Unitrode	PIC7531	
897	Hitachi	HD153030	
9000	GEC Plessey	SP9754	
		ZN440	
9005	Sipex	SP9560	
9012	**Harris**	**HI1386**	**(3639)**
9028	**Harris**	**HI1166**	**(3639)**
9048	IDT	IDT75C48	
9300	Burr-Brown	MPC100	
9521	GEC Plessey	SL521	
9610	Burr-Brown	OPA660	
	Sipex	SP9610	
9617	**Burr-Brown**	**OPA644**	**(3459)**
	Harris	HFA0001	
	LinearTech	LT1223	
9618	LinearTech	LT1223	
9620	**Burr-Brown**	**BUF600**	**(3459)**
	Harris	**HFA1110**	**(3637)**
9630	**Burr-Brown**	**BUF601**	**(3459)**
	Harris	**HFA1110**	**(3637)**
96685	Harris	HFA0003	
9685	AD	CMP08	
	Maxim	MAX9685	
	Signal Proc	HCMP96850	
9686	LinearTech	LT1016	
9687	Maxim	MAX9687	
9688	GEC Plessey	SP97504	
9700	GEC Plessey	SP97618	
9702	GEC Plessey	ZN454	
9720	**Harris**	**HI20201**	**(3639)**
9768	GEC Plessey	SP9768	
18304	GEC Plessey	ZN454	
		ZN455	
18404	GEC Plessey	ZN454	
		ZN455	
MP01	AD	AD521	
		AD522	
		AD524	
		AD624	
		AD625	
	National	LH0038	
		LM163	
		LM363	
MP02	Burr-Brown	INA111	
		INA114	
			(Continued)
AMP03	Burr-Brown	INA105	
AM29516	Harris	HMU16	
AM29517	Harris	HMU17	
BUF03	National	LH0002	
		LH0033	
♦ CAV1020	AD	MOD1020	
CA5420	AD	OP80	
CMP01	LinearTech	LT1011	
CMP02	LinearTech	LT1011	
CMP04	Harris	HA4900	
		HA4902	
		HA4905	
	Motorola	LM2901	
		LM3302	
	Philips	LM139	
		LM239	
		LM339	
	Raytheon	LM139	
		LM2901	
	TI	LM2901	
		LM3302	
		LM339	
		TLC339	
CMP05	TI	TL510	
CMP08	AMD	AM685	
	AD	AD9685	
	Maxim	MAX9690	
	National	LM160	
		LM260	
		LM360	
C67L401	GEC Plessey	MV66401	
C67L402	GEC Plessey	MV66401	
		MV66402	
DAC01	MicroPwr	MP5520	
	Motorola	MC1406	
		MC1506	
DAC02	National	DAC1020	
		DAC1021	
		DAC1022	
DAC03	National	DAC1020	
		DAC1021	
		DAC1022	
DAC05	National	DAC1020	
		DAC1021	
		DAC1022	
DAC08	AD	AD1408	
	Fujitsu	MB40748	
	GEC Plessey	ZN429	
	Motorola	DAC08	
	National	DAC0800	
		DAC0801	
		DAC0802	
	NEC	µPC624	
	Philips	DAC08	
	Raytheon	DAC08	
DAC0808	AD	DAC1508	
DAC10	GEC Plessey	SP9770	
	Motorola	MC3410	
		MC3510	
	Raytheon	DAC10	
DAC100	National	DAC1021	
		DAC1022	
♦ DAC1112	AD	DAC12	
DAC1122	AD	AD7541	
♦ DAC1125	AD	AD7533	
DAC1136	Burr-Brown	DAC729	
DAC1408	AMD	AM1408	
	AD	AD1408	
	Motorola	MC1408	
	National	DAC0806	
		DAC0807	
		DAC0808	
	Philips	MC1408	
DAC1508	AMD	AM1508	
	AD	DAC0808	
	Motorola	MC1508	
	Philips	MC1408	
DAC312	AMD	AM6012	
	AD	AD6012	
	National	DAC1266	
	NEC	µPC6012	
	Philips	AM6012	
	Raytheon	DAC6012	
DAC7528	Burr-Brown	DAC7528	
DAC8012	Burr-Brown	DAC8012	
	National	DAC1208	
		DAC1209	
		DAC1210	
DAC8043	Burr-Brown	DAC8043	
	Maxim	MAX543	
DAC80436	Maxim	MAX543	
DAC8212	AD	AD7547	
	GEC Plessey	ZN508	
			(Continued)
DAC8222	AD	AD7547	
	Maxim	AD7547	
		MX7547	
DAC8248	**AD**	**AD7537**	**(3517)**
	Maxim	AD7537	
		MX7537	
DAC8408	AD	AD7225	
	MicroPwr	MP7628	
DAC86	AMD	AM6070	
		AM6072	
DAC888	National	DAC0830	
		DAC0831	
		DAC0832	
DAS1128	Burr-Brown	SDM873	
DAS1152	Analogic	ADAM824	
DAS1153	Analogic	ADAM825	
DAS1157	Analogic	ADAM834	
DAS1158	Analogic	ADAM835	
DAS1159	Analogic	ADC4110	
DG211	TeledyneC	CDG211	
DG411	Harris	DG411	
DG412	Harris	DG412	
DG413	Harris	DG413	
DG441	Harris	DG441	
DG442	Harris	DG442	
DG444	Harris	DG444	
DG445	Harris	DG445	
DG529	AD	ADG529	
HAS0802	GEC Plessey	ZN439	
HAS1002	GEC Plessey	ZN501	
HAS1202	**Burr-Brown**	**ADC803**	**(3472)**
HA5141	AD	OP20	
♦ HDL3805	AD	HDL3806	
HI509	AD	MUX24	
HOS050	Elantec	EL2006	
	Harris	HA2542	
HOS060	Elantec	EL2006	
HOS100	**Burr-Brown**	**OPA633**	**(3459)**
	Elantec	EHOS100	
		EL2004	
	Harris	HA5033	
HOS200	Elantec	EHOS200	
HTC0300	Analogic	SHA2200	
	Burr-Brown	**SHC804**	**(3471)**
	MicroNet	**MN0300A**	**(3693)**
	Sipex	HS9720	
HTC0300A	**MicroNet**	**MN376**	**(3693)**
♦ HTC0500	AD	HTC0300	
HTS0010	**MicroNet**	**MN4000**	**(3693)**
HTS0025	**MicroNet**	**MN4000**	**(3693)**
♦ IDC1703	AD	IRDC1730	
		IRDC1731	
LF157A	National	LF157A	
LH0042	National	LH0042	
LIU01	Exar	XRT5650	
		XRT5681	
		XRT5683	
LM108	Raytheon	LM108	
LM208A	National	LM208A	
LSOP07	Lin Int Sys	LSOP07	
LSOP27	Lin Int Sys	LSOP27	
LSOP37	Lin Int Sys	LSOP37	
LT1006	LinearTech	LT1006	
♦ MAS1202	AD	HAS1202	
MAT01	GEC Plessey	SL360	
	Lin Int Sys	LS312	
	MicroPwr	AD810	
		AD811	
		AD812	
		AD818	
		MPT01	
		MP310	
		MP311	
		MP313	
		MP318	
MAT02	GEC Plessey	SL362	
	Lin Int Sys	LS312	
	MicroPwr	MPT02	
	National	LM194	
		LM394	
MAT03	AD	AD820	
		AD821	
	Lin Int Sys	LS358	
	MicroPwr	MP350	
		MP351	
		MP358	
		MP360	
		MP361	
♦ MDA11	AD	AD7521	
♦ MDMS0801	**AD**	**AD9768**	**(3517)**
♦ MDSL0802	AD	HDS0820	
♦ MDSL1002	AD	HDS1025	
♦ MDSL1201	AD	HDS1250	
			(Continued)
♦ MDS0830	AD	HDS0820	
♦ MDS0850	AD	HDS0820	
♦ MDS1040	AD	HDS1025	
♦ MDS1080	AD	HDS1025	
MP208	AD	PM208	
MUX08	AD	AD7501	
		AD7503	
	Burr-Brown	HI508A	
		MPC508	
		MPC8	
	Harris	HI1818	
		HI508	
		ICL5108	
		ICL6108	
		IH6108	
	Maxim	DG508	
	National	LF11508	
		LF13508	
	Siliconix	DG408	
		DG508	
	Unitrode	PIC7501	
MUX16	AD	AD7506	
	Burr-Brown	HI506A	
		MPC16	
		MPC506	
	Harris	HI506	
		IH6116	
	Maxim	DG506	
	Siliconix	DG506	
		MUX16	
MUX24	AD	AD7502	
		HI509	
	Burr-Brown	HI509A	
		MPC4	
		MPC509	
	Harris	HI1828	
		HI509	
		IH5208	
		IH6208	
	Maxim	DG509	
	National	LF11509	
		LF13509	
	Siliconix	DG409	
		DG509	
MUX28	AD	AD7507	
	Burr-Brown	HI507A	
		MPC507	
		MPC8	
	Harris	HI507	
		IH6216	
	Maxim	DG507	
	Siliconix	DG507	
MUX88	Harris	HI508	
NE532	AD	OP221	
	Philips	NE532	
		NE551	
OPA27	AD	ADOP07	
		ADOP27	
OP01	AnalogSys	MA332	
		MA333	
		MA362	
	Elantec	EHA2500	
	LinearTech	LT1023	
	MicroPwr	MPOP01	
	Motorola	MC1436	
		MC1456	
		MC1536	
		MC1556	
OP02	AD	AD741	
	Harris	CA741	
	Lattice	LM307	
		ML107	
	MicroPwr	MPOP02	
	Motorola	MC1741	
	National	µA741	
	Philips	µA741	
	Raytheon	RC741	
	TI	µA741	
OP04	Harris	CA747	
	LinearTech	LT1013	
	MicroPwr	MPOP04	
	Motorola	MC1747	
	National	µA747	
	Raytheon	RC747	
		RM747	
	TI	µA747	
OP05	Harris	OP05	
	LinearTech	LT1001	
		OP05	
	MicroPwr	MPOP05	
	National	LM607	
OP06	Motorola	MC1709	
		MC1748	
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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
OP06			(Cont'd)
	National	μA725	
		LM725	
OP07	AD	ADOP07	
	Burr-Brown	OPA177	
	Harris	OP07	
	LinearTech	LT1001	
		OP07	
	Maxim	LT1001	
		OP07	
	MicroPwr	MPOP07	
	Motorola	MC1741	
	National	μA741	
		LM607	
		OP07	
	Raytheon	OP07	
	TI	OP07	
		RC4136	
OP08	Harris	CA748	
	MicroPwr	MPOP08	
	Motorola	LM101	
		MC1776	
	National	LM101	
OP09	Exar	XR4136	
	MicroPwr	MPOP09	
		MP4136	
	National	μA4136	
	Raytheon	RC4136	
		RM4136	
	TI	RC4136	
		RM4136	
OP10	LinearTech	LT1002	
	MicroPwr	MPOP10	
OP11	AnalogSys	MA374	
	Exar	XR4741	
	Harris	HA4741	
		HA5104	
		HA5134	
	LinearTech	LT1014	
	MicroPwr	MPOP11	
	Motorola	LM124	
		LM324	
		MC4741	
	National	μA348	
		LM124	
		LM224	
		LM324	
	Philips	LM124	
		LM224	
		LM324	
		NE5514	
		SE5514	
	Raytheon	LM124	
		LM324	
		LM348	
		RC4156	
		RC4741	
	TI	LM124	
		LM324	
		LM348	
OP111	Burr-Brown	OPA111	
OP12	LinearTech	LT1012	
	MicroPwr	MPOP12	
OP14	Exar	XR1458	
		XR4558	
	Harris	CA1458	
		CA1558	
	LinearTech	LT1013	
	MicroPwr	MPOP14	
	Motorola	LM158	
		MC1458	
		MC1558	
	National	LM1458	
		LM1558	
		LM158	
	NEC	μPC1458	
	Philips	MC1458	
		NE4558	
		NE5512	
		SE4558	
		SE5512	
	TI	LM158	
		MC1458	
		MC1558	
OP15	AD	AD611	
	Burr-Brown	OPA606	
	Harris	CA081	
		CA3140	
		LF355	
	LinearTech	LT1055	
		OP15	
			(Continued)
OP15			(Cont'd)
	MicroPwr	MP155	
		MP355	
	Motorola	LF351	
		LF355	
		MC34001	
		MC35001	
		TL071	
		TL081	
	National	LF351	
		LF411	
		LM102	
		LM202	
		LM210	
		LM301	
		LM310	
	NEC	μPC4071	
		μPC4081	
		μPC811	
	Raytheon	LM110	
	TI	LF351	
		TL071	
		TL081	
		TL087	
		TL088	
OP16	AD	AD711	
	Burr-Brown	OPA606	
	LinearTech	LT1022	
		LT1056	
		OP16	
	MicroPwr	MP156	
		MP356	
	Motorola	LF356	
	NEC	μPC813	
OP160	Harris	HA5020	
OP17	MicroPwr	MP157	
		MP360	
	Motorola	LF357	
	NEC	μPC357	
OP177	**AD**	**AD707**	**(3526)**
	Burr-Brown	OPA177	
	Harris	HA5130	
		HA5135	
		HA5177	
		ICL7650	
		ICL8008	
	LinearTech	LT1001	
		LT1097	
	Maxim	ICL7650	
		ICL7652	
		LT1001	
		MAX400	
		MAX420	
		MAX421	
		MAX423	
		MAX430	
		MAX432	
		OP07	
	National	LM668	
	Raytheon	LT1001	
		OP07	
		OP77	
		RC4077	
		RM4077	
		RV4077	
	TI	LM201	
		LM207	
		LM301	
		LM307	
		LM607	
		LT1001	
		OP177	
		TLC2652	
		TLC2654	
OP20	AD	HA5141	
	Harris	HA5141	
OP200	**AD**	**AD708**	**(3526)**
	LinearTech	LT1013	
	Raytheon	RC4277	
		RM4227	
OP207	LinearTech	LT1002	
OP21	Burr-Brown	OPA21	
	Harris	HA5151	
	TI	TLE2021	
		TL321	
OP215	AD	AD642	
		AD644	
		AD712	
	Burr-Brown	OPA211	
	Exar	XR082	
		XR5533	
	Harris	CA082	
		CA3240	
			(Continued)
OP215	Harris		(Cont'd)
		CA5422	
		ICL8043	
		LF353	
	LinearTech	LT1057	
		OP215	
	Motorola	MC34002	
		MC35002	
		MC4558	
		OP215	
	National	LF412	
	NEC	μPC4082	
		μPC812	
	TI	LF353	
		OP215	
		TL072	
		TL082	
		TL288	
OP22	Harris	HA2720	
		HA2725	
		ICL8021	
	Maxim	ICL7611	
		ICL7612	
		ICL7614	
		ICL7616	
	Motorola	MC1776	
		MC3476	
	National	μA776	
		μPC4741	
		LM4250	
	NEC	μPC4250	
	TI	TLC251	
		TLC271	
OP220	Harris	HA5142	
	LinearTech	LT1013	
		LT1078	
	TI	TL322	
OP221	AD	NE532	
	Harris	CA158	
		HA5151	
		HA5152	
	LinearTech	LT1013	
	Motorola	LM158	
		LM258	
		LM2904	
		LM358	
		MC1747	
		MC3358	
		MC3458	
		MC3558	
	National	LM158	
		LM258	
		LM2904	
		LM358	
	NEC	μPC358	
	Philips	LM258	
		LM2904	
		LM358	
		SA532	
		SE532	
	TI	LM258	
		LM358	
		TLC25M2	
		TLC252	
		TLC27M2	
		TLC27M7	
		TLE2022	
		TL022	
		TL322	
OP227	Harris	HA2650	
		HA2655	
	LinearTech	OP227	
	MicroPwr	MPOP207	
		MPOP227	
OP237	**Burr-Brown**	**OPA1013**	**(3457)**
		OPA2111	
OP260	**AD**	**AD846**	**(3526, 3512, 3529)**
	Comlinear	CLC400	
		CLC401	
OP27	AD	ADOP27	
	AnalogSys	MA332	
		MA362	
	Burr-Brown	OPA27	
	ECI Semi	OP72	
	Harris	HA5127	
	Lattice	OP27	
	LinearTech	LT1007	
		OP27	
	MicroPwr	MPOP27	
	Motorola	OP27	
	Philips	SE5534	
	Raytheon	OP27	
			(Continued)
OP27			(C
	TI	LT1007	
		OP27	
		TLE2027	
OP27AZ/883C			
	TI	OP27A	
OP27CZ/883C			
	TI	OP27C	
OP270	Exar	XR4739	
		XR5532	
		XR5533	
	Harris	HA2102	
		HA2105	
		HA5102	
	LinearTech	LT1124	
		OP270	
	Philips	NE5532	
		SE5532	
	Raytheon	RC4207	
		RC4227	
		RM4207	
		RV4207	
	TI	NE5532	
		RC4558	
		RC4559	
		RM4558	
		RV74558	
OP271	Exar	XR4560	
	Harris	HA2650	
		HA2655	
		HA5102	
	LinearTech	OP237	
	Philips	SE5535	
OP290	Harris	HA5142	
	LinearTech	LT1078	
		LT1178	
	TI	LM158	
		OP290	
		TLC1078	
		TLC25L2	
		TLC27L2	
		TLC27L7	
		TLC272	
		TLC277	
OP297	LinearTech	LT1024	
OP37	AD	ADOP37	
	AnalogSys	MA362	
	Burr-Brown	OPA37	
	Exar	XR5534	
	Harris	HA5137	
	Lattice	OP37	
	LinearTech	LT1037	
		OP37	
	MicroPwr	OP37	
	Raytheon	OP37	
	TI	LT1037	
		NE5534	
		OP37	
		SE5534	
		TLE2037	
OP37AZ/883C			
	TI	OP37A	
OP37CZ/883C			
	TI	OP37C	
OP400	Harris	HA5134	
		HA5234	
	Lattice	OP400	
	LinearTech	LT1014	
OP41	AD	AD503	
		AD506	
		AD542	
		AD545	
	Burr-Brown	OPA103	
		OPA111	
	Harris	CA3140	
		CA3193	
		ICL8007	
OP42	AD	AD518	
		AD744	**(3 3**
	Burr-Brown	OPA101	
	Elantec	EHA2500	
		EHA2502	
		EHA2510	
		EHA2512	
		EHA2515	
		EHA2520	
		EHA2522	
		EHA2525	
	Harris	HA2500	
		HA2502	
		HA2505	
		HA2510	
			(Continu

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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ufacturer ice	Replacement Source	Device	IC Master Page
42	Harris		(Cont'd)
		HA2512	
		HA2515	
	LinearTech	LT1023	
		LT1122	
	National	LF400	
		LH0062	
		LM118	
		LM218	
		LM318	
	NEC	µPC318	
	Philips	NE530	
		NE531	
		NE538	
		SE530	
		SE531	
		SE538	
420	Harris	HA5144	
		HA5154	
	LinearTech	LT1079	
	TI	OP420	
		TL136	
421	Exar	XR3403	
		XR4202	
		XR4212	
	Harris	CA124	
		CA224	
		CA324	
		HA5154	
		LM324	
	LinearTech	LT1014	
	Motorola	LM124	
		LM224	
		LM248	
		LM2902	
		LM324	
		MC3303	
		MC3403	
		MC3503	
		MC4741	
	National	µA224	
		µA324	
		µA3303	
		µA3403	
		LM124	
		LM224	
		LM2902	
		LM324	
		LP124	
		LP2902	
		LP324	
	NEC	µPC324	
		µPC3403	
	Philips	LM124	
		LM224	
		LM2902	
		LM324	
		MC3403	
		MC3503	
		SA534	
	Raytheon	LM124	
		LM324	
		RC4156	
		RC4741	
	TI	LM124	
		LM224	
		LM248	
		LM2902	
		LM324	
		MC3303	
		MC3403	
		TLC25M4	
		TLC254	
		TLC27M4	
		TLC27M9	
		TLC274	
		TLE2024	
		TL044	
43	AD	AD544	
	Harris	HA5170	
		HA5180	
	National	LF441	
		LH740	
44	AD	AD509	
	Burr-Brown	OPA102	
		OPA602	**(3457, 3459)**
	Elantec	EHA2520	
		EHA2522	
		EHA2525	

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Manufacturer Device	Replacement Source	Device	IC Master Page
OP44			(Cont'd)
	Harris	HA2520	
		HA2522	
		HA2525	
		HA5160	
		HA5162	
OP47	Harris	HA5147	
OP470	Harris	HA4600	
		HA4602	
		HA4605	
		HA5104	
	LinearTech	LT1125	
		OP470	
OP471	Burr-Brown	OPA404	
	Motorola	MC33079	
	National	LM149	
		LM249	
		LM349	
		LM837	
OP490	LinearTech	LT1079	
		LT1179	
	TI	TLC1079	
		TLC25L4	
		TLC27L4	
		TLC27L9	
		TLC274	
		TLC279	
OP61	LinearTech	LT1028	
OP62	Harris	HA5221	
OP63	Harris	HA5221	
OP64	Elantec	EL2190	
		EL2195	
	Harris	HA2620	
		HA2622	
		HA2625	
		HA5190	
		HA5195	
		HA5221	
OP65	Harris	CA3450	
		HA2548	
OP77	AD	AD517	
		AD707	**(3526)**
	Burr-Brown	OPA77	
	Harris	µA777	
		CA3193	
		CA3493	
		HA5130	
		HA5135	
		HA5177	
	LinearTech	LT1001	
	Maxim	LT1001	
		MAX400	
	Motorola	LM307	
	National	µA101	
		µA201	
		µA207	
		µA301	
		µA307	
		µA714	
		µA741	
		LH0044	
		LM101	
		LM207	
		LM307	
		LM607	
		LM741	
	NEC	µPC301	
	Raytheon	LM101	
		LT1001	
		OP77	
		RC741	
		RM741	
		RV741	
	TI	LM101	
		LT1001	
OP80	AD	AD515	
		CA5420	
	Burr-Brown	AD515	
		OPA104	
		OPA128	
	Harris	CA3130	
		CA3420	
		CA3440	
		ICL7611	
		ICL8500	
OP90	Harris	CA3078	
		HA5141	
		HA5151	
	Maxim	MAX480	
		OP90	
OP97	LinearTech	LT1012	
		LT1097	

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Manufacturer Device	Replacement Source	Device	IC Master Page
OP97			(Cont'd)
	Motorola	LM11	
	National	LM11	
	Raytheon	RC4097	
		RM4097	
		RV4097	
	TI	TLC2201	
PKD01	Burr-Brown	BB4085	
PM0820	Maxim	ADC0820	
		MX7820	
	National	ADC0820	
	TI	TLC0820	
PM1008	Harris	LM108	
		LM308	
	Lattice	LM108	
	LinearTech	LT1008	
	Motorola	LM108	
		LM201	
		LM208	
		LM301	
		LM308	
	National	µA208	
		µA308	
		LM108	
		LM201	
		LM208	
		LM301	
		LM308	
	Raytheon	LM108	
	TI	LM308	
		LT1008	
PM1012	LinearTech	LT1012	
	National	LM112	
		LM212	
		LM312	
	Raytheon	LT1012	
	TI	LT1012	
PM108	LinearTech	LM108	
		LT1008	
	MicroPwr	MP108	
	National	LM108	
PM108AJ/883C			
	TI	LM108ALB	
PM108J/883C			
	TI	LM108LB	
PM111	Motorola	LM111	
	National	LM111	
	Philips	LM111	
PM119	National	LM119	
	Philips	LM119	
PM139	Harris	CA139	
		CA239	
		CA339	
	Motorola	LM139	
		LM239	
	National	LM139	
		LM239	
		LM2901	
		LM3302	
	NEC	µPC339	
		µPC356	
	Philips	LM139	
	Raytheon	LM139	
	TI	LM139	
PM139A	National	LM139A	
PM139ARC/883C			
	TI	LM139AFKB	
PM139AY	TI	LM139AJ	
PM139AY/883C			
	TI	LM139AJB	
PM139Y	TI	LM139J	
PM139Y/883C			
	TI	LM139JB	
PM148	Motorola	LM148	
	National	LM148	
	Raytheon	LM148	
	TI	LM148	
PM148Y	TI	LM148J	
PM148Y/883C			
	TI	LM148JB	
PM155	Burr-Brown	OPA156	
	LinearTech	LF1055	
		LF155	
		LT1055	
	MicroPwr	MP155	
	National	LF155	
		LF255	
PM155A	Burr-Brown	OPA156A	
	National	LF155A	
PM1558	LinearTech	LT1013	
PM156	Burr-Brown	OPA156	
	LinearTech	LF156	
		LT1056	

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Manufacturer Device	Replacement Source	Device	IC Master Page
PM156			(Cont'd)
	MicroPwr	MP156	
	National	LF156	
		LF256	
PM156A	Burr-Brown	OPA156A	
	National	LF156A	
PM157	MicroPwr	MP157	
	National	LF157	
		LF257	
PM208	AD	MP208	
	National	LM208	
PM2108	LinearTech	LH2108	
	Raytheon	LH2108	
PM211	Harris	LM311	
	Motorola	LM211	
		LM311	
	National	LM211	
		LM311	
	NEC	µPC311	
	Philips	LM211	
PM219	National	LM219	
		LM319	
	NEC	µPC319	
	Philips	LM219	
PM248	Motorola	LM248	
	National	µA248	
		LM248	
		PM248	
	TI	LM348	
		PM248	
PM308	Lattice	LM308	
	LinearTech	LM308	
		LT1008	
	MicroPwr	MP308	
	National	LM308	
	TI	LM308	
PM308A	National	LM308A	
PM319	National	LM319	
PM339	Motorola	LM339	
	National	LM2901	
		LM3302	
		LM339	
PM339A	National	LM339A	
PM355	LinearTech	LF355	
		LT1055	
	MicroPwr	MP355	
	Motorola	LF355	
	National	LF355	
PM355A	National	LF355A	
PM356	LinearTech	LF356	
		LT1056	
	MicroPwr	MP356	
	Motorola	LF356	
	National	LF356	
	NEC	µPC356	
PM356A	National	LF356A	
PM357	Motorola	LF357	
	National	LF357	
PM357A	National	LF357A	
PM4136RC/883C			
	TI	RM4136FKB	
PM420	National	LM124	
PM562	AD	AD562	
	Harris	HI562	
	MicroPwr	MP562	
	Motorola	AD562	
PM7224	AD	AD7224	
	Maxim	AD7224	
		MX7224	
PM7226	AD	AD7226	
	Maxim	AD7226	
	MicroPwr	MP7226	
PM725	National	LM725	
PM741	National	LM741	
PM747	National	LM747	
PM7521	AD	AD7521	
PM7524	AD	AD7523	
		AD7524	
	GEC Plessey	ZN428	
		ZN558	
	Harris	AD7523	
	Maxim	AD7523	
		AD7524	
		MX7524	
	MicroPwr	MP7524	
	TI	TLC7524	
PM7528	AD	AD7528	
	Maxim	AD7528	
		MX7528	
	MicroPwr	MP7528	
	TI	AD7528	
		TLC7528	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Analog Devices (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
PM7533	AD	AD7520	
		AD7530	
		AD7533	
	Harris	AD7520	
		AD7530	
		AD7533	
	Maxim	AD7520	
		AD7530	
		AD7533	
		MX7533	
	MicroPwr	MP7533	
	National	AD7520	
		AD7530	
		DAC1020	
		DAC1021	
		DAC1022	
	TI	AD7533	
		TLC7533	
	Unitrode	PIC7533	
PM7541	AD	AD7521	
		AD7531	
		AD7541	
	Burr-Brown	DAC7541	
	Harris	AD7521	
		AD7531	
		AD7541	
		HI7541	
	Maxim	AD7521	
		AD7531	
		AD7541	
		MX7541	
	MicroPwr	MP7531	
		MP7541	
		MP7621	
		MP7623	
	National	AD7521	
		AD7531	
		DAC1218	
		DAC1219	
		DAC1220	
		DAC1221	
		DAC1222	
	Sipex	HS7541	
PM7542	AD	AD7542	
	Maxim	MX7542	
		PM7542	
	MicroPwr	MP7542	
PM7543	AD	AD7543	
	Maxim	AD7543	
		MX7543	
	MicroPwr	MP7543	
	Signal Proc	HDAC7543	
PM7545	AD	AD7545	
	Burr-Brown	**DAC7545**	**(3469)**
	Harris	AD7545	
	Maxim	AD7545	
		MX7545	
	MicroPwr	MP7545	
	Sipex	HS7545	
PM7548	AD	AD7548	
	Maxim	MX7548	
PM7574	AD	AD7574	
	Maxim	AD7574	
		MX7574	
	MicroPwr	MP7574	
PM7628	Maxim	MX7628	
	MicroPwr	MP7628	
PM7645	AD	AD7645	
	MicroPwr	MP7645	
REF01	AD	ADREF01	
		AD581	
	Burr-Brown	REF01	
		REF10	
		REF102	**(3467)**
	GEC Plessey	REF100	
		ZNREF100	
	LinearTech	LT1019	
		LT1021	
		REF01	
	Maxim	AD2700	
		AD581	
		MAX674	
		REF01	
	MicroPwr	MPREF01	
	Motorola	MC1400	
		MC1404	
		MC1500	
	National	LM368	
		LM369	
	Raytheon	REF01	
	TeledyneC	REF01	
REF02	AD	ADREF02	
	Burr-Brown	REF02	
	GEC Plessey	REF50	
		ZNREF050	
	LinearTech	LT1019	
		LT1021	
		REF02	
	Maxim	MAX675	
		REF02	
	MicroPwr	MPREF02	
	Motorola	MC1400	
		MC1404	
		MC1500	
	National	LM368	
	Raytheon	REF02	
	TeledyneC	TSC9495	
REF03	GEC Plessey	ZNREF025	
	LinearTech	LT1009	
		LT1019	
	Motorola	MC1403	
	National	LM236	
		LM336	
		LM385	
	Raytheon	REF03	
REF05	Burr-Brown	REF05	
	GEC Plessey	ZNREF050	
	MicroPwr	MPREF05	
REF08	National	LM285	
REF10	AD	AD581	
	Burr-Brown	REF10	
		REF102	**(3467)**
	GEC Plessey	REF100	
		ZNREF100	
	MicroPwr	MPREF10	
REF43	AD	AD1403	
		AD580	
	LinearTech	LT1019	
	Motorola	MC1403	
	National	LM136	
		LM185	
		LM368	
	Raytheon	REF03	
	TeledyneC	TSC05	
RPT82	Exar	XRC277	
	Harris	CA22301	
RPT83	Exar	XRC277	
	Harris	CA22301	
RPT85	Exar	XRC445	
RPT86	Exar	RPT86	
		XRC240	
		XRC262	
		XRC587	
		XRC588	
		XRT56L22	
		XRT5600	
		XRT5700	
		XRT5720	
RPT87	Exar	XRC240	
		XRC262	
		XRC587	
		XRC588	
		XRT56L22	
		XRT5600	
		XRT5620	
		XRT5700	
		XRT5720	
♦ RTI1200	AD	RTI711	
♦ RTI1201	AD	RTI711	
♦ RTI1202	AD	RTI711	
SDM856	AD	AD363	
♦ SERDEX	AD	μMAC5000	
♦ SHA6	AD	SHA1144	
SHC804	AD	AD346	
SHC85	Burr-Brown	SHC85	
SMP10	AD	AD582	
		AD583	
	Burr-Brown	**SHC298**	**(3471)**
		SHC85	
	Harris	HA2420	
		HA2425	
	National	LF198	
		LF298	
		LF398	
		LH0043	
SMP11	Harris	HA2420	
		HA2425	
		IH5110	
		IH5111	
		IH5112	
		IH5113	
		IH5114	
		IH5115	
SMP11			(Cont'd)
	National	LF198	
		LF298	
		LF398	
		LH0023	
SSM2110	AD	AD536	
SSM2134	Exar	XR5534	
	Philips	NE5534	
		SA5534	
	Raytheon	RC5534	
	TI	NE5534	
SSM2139	Exar	XR5532	
		XR5533	
	Harris	HA5112	
	Lattice	OP237	
	Motorola	LM833	
		MC33078	
	National	LM833	
	Philips	NE5532	
		NE5533	
		NE5535	
	Raytheon	RC5532	
	TI	NE5532	
SSM2141	Burr-Brown	INA105	
SSM2210	National	LM394	
SSM2300	Harris	CA4051	
SW01	Siliconix	DG201	
		DG211	
	TeledyneC	TSC4201	
		TSC441	
		TSC9496	
SW02	Siliconix	DG202	
		DG212	
	TeledyneC	TSC4202	
		TSC442	
SW05	Harris	HI200	
		HI300	
		HI381	
	Siliconix	DG200	
SW06	Harris	HI303	
		HI390	
	National	LF11333	
		LF13333	
	TeledyneC	TSC4203	
		TSC443	
SW201	Harris	HI201	
	Maxim	DG201	
	National	LF11201	
		LF13201	
	Siliconix	DG201	
		DG411	
SW202	Maxim	DG202	
	National	LF11202	
		LF13202	
	Siliconix	DG202	
		DG412	
SW7510	AD	AD7510	
	MicroPwr	MP7510	
	Siliconix	DG5045	
	Unitrode	PIC7510	
SW7511	AD	AD7511	
	MicroPwr	MP7511	
	Unitrode	PIC7511	
♦ THC0300	AD	HTC0300	
♦ THS0025	AD	HTC0300	
♦ THS0060	AD	HTC0300	
♦ TSDC1608	AD	TSL1612	
♦ TSDC1609	AD	TSL1612	
♦ TSDC1610	AD	TSL1612	
♦ TSDC1611	AD	TSL1612	
♦ 101	AD	45	
♦ 102	AD	48	
♦ 106	AD	118	
♦ 107	AD	118	
♦ 108	AD	52	
♦ 110	AD	48	
♦ 120	AD	50	
♦ 141	AD	40	
♦ 142	AD	48	
♦ 143	AD	52	
♦ 146	AD	AD382	
♦ 149	AD	50	
♦ 153	AD	AD517	
♦ 170	AD	171	
♦ 180	AD	ADOP07	
♦ 183	AD	184	
♦ 220	AD	234	
♦ 230	AD	235	
♦ 231	AD	233	
♦ 274	AD	284	
♦ 279	AD	286	
♦ 282	AD	292	
♦ 283	AD	292	
♦ 301	AD	52	
♦ 302	AD	310	
3656	AD	AD293	
		AD294	
		AD295	
♦ 41	AD	AD515	
♦ 424	AD	AD534	
		435	
♦ 43	AD	AD549	
♦ 454	AD	AD537	
♦ 456	AD	AD537	
♦ 47	AD	48	
♦ 602J10	AD	AD524	
♦ 602J100	AD	AD524	
♦ 602K100	AD	AD524	
♦ 603	AD	AD524	
♦ 605	AD	AD524	
63S081	Fujitsu	MB7112	
63S140	Fujitsu	MB7113	
63S141	Fujitsu	MB7114	
63S241	Fujitsu	MB7116	
7C901	Cypress	CY7C910	
♦ 752	**AD**	**759**	**(35**
♦ 901	AD	904	
♦ 907	AD	921	
♦ 908	AD	921	
♦ 909	AD	921	
♦ 948	AD	947	
♦ 971	AD	921	

Analog Microsystems

Manufacturer Device	Replacement Source	Device	IC M
PM7524	TI	AD7524	

Analog Systems

Manufacturer Device	Replacement Source	Device	IC M
MA332	AD	OP01	
		OP27	
	Harris	CA081	
		CA301	
		CA3100	
		CA3193	
		CA3493	
		CA741	
		CA748	
		HA2605	
	Motorola	LF351	
		LF356	
		LM11	
		LM301	
		LM307	
		MC1456	
		MC1741	
		MC1748	
		MC34001	
		OP27	
		TL071	
		TL081	
	National	μA301	
		μA307	
		μA741	
		μA748	
		μA771	
		LF351	
		LF356	
		LF411	
		LM11	
		LM301	
		LM307	
		LM318	
		LM741	
		LM748	
	NEC	μPc741	
		μPC151	
		μPC157	
		μPC159	
		μPC301	
		μPC354	
		μPC4081	
		μPC801	
	Panasonic	AN1741	
		AN6570	
	Philips	LF356	
		NE530	
		NE531	
		NE538	
		NE5534	
	Raytheon	LM301	
		RC4131	
		RC4531	
		RC741	

(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

nalog Systems (Cont'd)

anufacturer evice	Replacement Source	Device	IC Master Page
A332			(Cont'd)
	SGS-Thomson		
		LS141	
		LS148	
		LS301	
		LS307	
	Sony	2003	
	TI	LM301	
		LM307	
		LM318	
		NE5534	
		TL071	
		TL081	
		TL291	
A333	AD	OP01	
	Harris	CA081	
		CA301	
		CA3100	
		CA3193	
		CA3493	
		CA741	
		CA748	
		HA2605	
		HA5170	
	Motorola	LF351	
		LF356	
		LM11	
		LM301	
		LM307	
		MC1456	
		MC1741	
		MC1748	
		MC34001	
		TL071	
		TL081	
	National	µA301	
		µA307	
		µA741	
		µA748	
		µA771	
		µA772	
		LF351	
		LF356	
		LF411	
		LM11	
		LM301	
		LM307	
		LM741	
		LM748	
	NEC	µPC151	
		µPC157	
		µPC301	
		µPC354	
		µPC4081	
		µPC741	
		µPC801	
	Panasonic	AN1741	
		AN6570	
	Philips	LF356	
		NE530	
		NE531	
	Raytheon	LM301	
		RC4131	
		RC4531	
		RC741	
	SGS-Thomson		
		LS141	
		LS148	
		LS301	
		LS307	
	TI	LM301	
		LM307	
		TL071	
		TL081	
336	Harris	CA082	
		CA1458	
		CA1558	
		CA2904	
		CA358	
		HA5062	
		HA5082	
		HA5102	
		MC3358	
	Motorola	LF353	
		LM358	
		MC1458	
		MC34002	
		MC3458	
		MC4558	
		TL072	
		TL082	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MA336			(Cont'd)
	National	µA1458	
		µA772	
		µA798	
		LF353	
		LF412	
		LM1458	
		LM2904	
		LM358	
	NEC	µPC1458	
		µPC251	
		µPC258	
		µPC259	
		µPC4082	
		µPC4556	
		µPC4557	
		µPC4558	
		µPC4559	
		µPC4560	
		µPC803	
	Panasonic	AB6558	
		AN1358	
		AN1458	
		AN4558	
		AN6552	
		AN6556	
		AN6562	
		AN6572	
	Philips	MC1458	
		NE4558	
		NE532	
		NE5535	
	Raytheon	LM358	
		RC2041	
		RC2043	
		RC4556	
		RC4558	
		RC4559	
		RC4560	
		RC4562	
		RC5532	
	SGS-Thomson		
		LS204	
	TI	LM2904	
		LM358	
		MC1458	
		RC4558	
		RC4559	
		TL072	
		TL082	
MA362	AD	OP01	
		OP27	
		OP37	
	Harris	CA081	
		CA301	
		CA3100	
		CA3193	
		CA3493	
		CA741	
		CA748	
		HA2605	
		HA5170	
	Motorola	LM11	
		LM301	
		MC34001	
		OP27	
		OP37	
		TL071	
		TL081	
	National	µA301	
		µA307	
		µA741	
		µA748	
		µA771	
		LF351	
		LF356	
		LF411	
		LM11	
		LM301	
		LM307	
		LM318	
		LM351	
		LM356	
		LM741	
		LM748	
		MC1456	
		MC1741	
		MC1748	
	NEC	µPC151	
		µPC157	
		µPC159	
		µPC301	
		µPC354	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MA362	NEC		(Cont'd)
		µPC4081	
		µPC741	
		µPC801	
	Panasonic	AN1741	
		AN6570	
	Philips	LF356	
		NE530	
		NE531	
		NE538	
		NE5534	
	Raytheon	LM301	
		RC4131	
		RC4531	
		RC741	
	SGS-Thomson		
		LS141	
		LS148	
		LS301	
		LS307	
	Sony	2003	
	TI	LM301	
		LM307	
		LM318	
		NE5534	
		TL071	
		TL081	
		TL291	
MA372	Harris	CA082	
		CA1458	
		CA1558	
		CA2904	
		CA358	
		HA5062	
		HA5082	
		HA5102	
		HA5112	
	Motorola	LF353	
		LM358	
		MC1458	
		MC3358	
		MC34002	
		MC3458	
		MC4558	
		TL072	
	National	µA1458	
		µA772	
		µA798	
		LF353	
		LF412	
		LM1458	
		LM2904	
		LM358	
		LM833	
	NEC	µPC1458	
		µPC251	
		µPC258	
		µPC259	
		µPC4082	
		µPC4556	
		µPC4557	
		µPC4558	
		µPC4559	
		µPC4560	
		µPC803	
	Panasonic	AN1358	
		AN1458	
		AN4558	
		AN6552	
		AN6556	
		AN6558	
		AN6562	
		AN6572	
	Philips	LM358	
		MC1458	
		NE4558	
		NE532	
		NE5532	
		NE5535	
	Raytheon	LM358	
		RC2041	
		RC2043	
		RC4556	
		RC4558	
		RC4559	
		RC4560	
		RC4562	
		RC5532	
	SGS-Thomson		
		LS204	
	Sony	2004	
	TI	LM2904	
		LM358	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MA372	TI		(Cont'd)
		MC1458	
		NE5532	
		RC4558	
		RC4559	
		TL072	
		TL082	
		TL292	
MA374	AD	OP11	
	Harris	CA084	
		HA4156	
		HA4600	
		HA4605	
		HA4741	
		HA5064	
		HA5084	
		HA5104	
	Motorola	LM324	
		LM347	
		LM348	
		MC2902	
		MC3303	
		MC33074	
		MC33084	
		MC34004	
		MC3403	
		MC3405	
		MC34074	
		MC4741	
		TL074	
		TL084	
	National	µA2902	
		µA3303	
		µA3403	
		µA348	
		µA774	
		LF347	
		LM2902	
		LM324	
		LM348	
	NEC	µPC324	
		µPC374	
		µPC4084	
		µPC451	
		µPC458	
		µPC4741	
	Panasonic	AN1234	
		AN6554	
		AN6564	
	Philips	MC3403	
	Raytheon	LM324	
		LM348	
		RC2902	
		RC3403	
		RC4156	
	SGS-Thomson		
		LS404	
	TI	LM348	
		MC3403	
		TL074	
		TL084	
		TL136	

Analogic

Manufacturer Device	Replacement Source	Device	IC Master Page
ADAM824	AD	DAS1152	
ADAM825	AD	DAS1153	
ADAM834	AD	DAS1157	
ADAM835	AD	DAS1158	
ADC3201	Crystal	CSZ5114	
ADC3202	Crystal	CS5014	
ADC4110	AD	DAS1159	
ADC4201	Crystal	CS5016	
ADC4202	Crystal	CSZ5116	
ADC4203	Crystal	CS5016	
♦ ADC4300	**AD**	**AD1376**	**(3510, 3538)**
		AD1380	**(3510, 3538)**
♦ ADC4300	Burr-Brown	ADC71	
		ADC76	
♦ ADC4300	Sipex	HS9576	
♦ AH20016	Burr-Brown	SHC702	
		SHC803	**(3471)**
		SHC804	**(3471)**
MP227	Datel	AM227	
MP2321	GEC Plessey	ZN450	
		ZN451	
MP6812	Burr-Brown	SDM863	
MP8008	GEC Plessey	ZN439	
MP8014	Burr-Brown	PCM75	
MP8016	Burr-Brown	PCM75	

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continued

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

Analogic (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SHA2200	AD	HTC0300	
	ILC-DDC	THA05210	
	Sipex	HS9720	
	TeledyneP	4860	

Apex Microtechnology

Manufacturer Device	Replacement Source	Device	IC Master Page
PA01	Burr-Brown	OPA511	
		3571	
		3572	
	Harris	8510	
		8515	
	National	LH0101	
		LM12	
PA010	National	LH0101	
		LM12	
PA011	National	LM12	
PA02	Burr-Brown	OPA541	
	Elantec	ELH0101	
	National	LH0101	
		LM12	
PA07	Burr-Brown	OPA541	
		3571	
		3572	
	Harris	8520	
		8530	
	National	LM12	
PA08	Burr-Brown	3583	
PA09	TeledyneC	1460	
		1461	
	TeledyneP	TCPA09	
PA10	Burr-Brown	OPA511	
		OPA512	
		OPA541	
		3571	
		3572	
	National	LM12	
PA11	Burr-Brown	OPA511	
PA12	Burr-Brown	OPA502	
		OPA512	
		OPA541	
		3571	
		3572	
	National	LM12	
	TeledyneC	1468	
PA25	Burr-Brown	OPA2541	
PA26	National	LM675	
	SGS-Thomson	L165	
PA51	Burr-Brown	OPA501	
		OPA541	
	National	LM12	
PA61	Burr-Brown	OPA501	
		OPA541	
		3571	
		3572	
	National	LM12	
PA73	Burr-Brown	3573	
	National	LM12	
PA80	Burr-Brown	3580	
PA81	Burr-Brown	3581	
PA81J	Burr-Brown	3581	
PA82	Burr-Brown	3582	
PA82J	Burr-Brown	3582	
PA83	Burr-Brown	3580	
		3583	
	TeledyneC	1480	
PA84	Burr-Brown	3584	
	TeledyneC	1480	
WA01	**Burr-Brown**	**3554**	**(3459)**
WB05	National	LH0063	

Applied Micro Circuits

Manufacturer Device	Replacement Source	Device	IC Master Page
SCI210A	**TriQuint**	**GA1210E**	**(3841)**
SC1110A	**TriQuint**	**GA1110E**	**(3841)**
SC1110B	**TriQuint**	**GA1110E**	**(3841)**
SC1201A	**TriQuint**	**GA1210E**	**(3841)**
SC1210B	**TriQuint**	**GA1210E**	**(3841)**

Aspen Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
CY10E422	Synergy	SY10E422	
		SY10422	
CY10E474	Synergy	SY10L474	
		SY10474	
CY100E422	Synergy	SY100L422	
		SY100422	
CY100E474	Synergy	SY100L474	
		SY100474	
CY100E492	Synergy	SY100492	
CY101E492	Synergy	SY101492	
CY101E494	Synergy	SY101494	

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Astec Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
AS1004	LinearTech	LM385	
		LT1004	
	Motorola	LM385	
	National	LM335	
		LM385	
	TI	LM385	
		LT1004	
AS1431	LinearTech	LT1431	
	TI	TL1431	
AS3842	**Micrel**	**MIC38C42**	**(3685)**
		MIC38HC42	
♦ AS3842	Cherry Semi	CS3842	
	GoldStar	GL3842	
	Linfinity Micro	SG3842	
	Motorola	UC3842	
	Philips	UC3842	
	SGS-Thomson	UC3842	
	Unitrode	UC3842	
AS3843	**Micrel**	**MIC38C43**	**(3685)**
		MIC38HC43	
♦ AS3843	Cherry Semi	CS3843	
	Linfinity Micro	SG3843	
	Motorola	UC3843	
	Unitrode	UC3843	
AS3844	**Micrel**	**MIC38C44**	**(3685)**
		MIC38HC44	
♦ AS3844	Cherry Semi	CS3844	
	Linfinity Micro	SG3844	
	Motorola	UC3844	
	Unitrode	UC3844	
AS3845	**Micrel**	**MIC38C45**	**(3685)**
		MIC38HC45	
♦ AS3845	Cherry Semi	CS3845	
	Linfinity Micro	SG3845	
	Motorola	UC3845	
	SGS-Thomson	UC3845	
	Unitrode	UC3845	
♦ AS431	LinearTech	LT1431	
	Motorola	TL431	
	National	µA431	
		LM431	
♦ AS431	Samsung	KA431	
	TI	TL431	
A431	Hitachi	HA17431	
	Motorola	TL431A	
	National	LM431A	
	Samsung	SKA431	
	TI	TL431A	
TL431	Hitachi	HA17431	
	Motorola	TL431	
	National	LM431A	
	Samsung	KA431	
	TI	TL431	
UC384	Cherry Semi	CS384	
	Motorola	UC384	
	Samsung	KA384	
	TI	UC384	
	Unitrode	UC384	
UC3842	Hitachi	HA17384	
	LinearTech	LT1242	
UC3842A	Cherry Semi	CS3842A	
	Hitachi	HA17384	
	LinearTech	LT1242	
	Motorola	UC3842	
		UC3842A	
	Samsung	KA3842	
	TI	UC3842	
	Unitrode	UC3842	
		UC3842A	
UC3843	Hitachi	HA17345	
	LinearTech	LT1243	
UC3843A	Cherry Semi	CS3843A	
	Hitachi	HA17345	
	LinearTech	LT1243	
	Motorola	UC3843	
		UC3843A	
	Samsung	KA3843	
	TI	UC3843	
	Unitrode	UC3843	
		UC3843A	
UC3844	LinearTech	LT1244	
UC3844A	Cherry Semi	CS3844A	
	LinearTech	LT1244	
	Motorola	UC3844	
		UC3844A	
	Samsung	KA3844	
	TI	UC3844	
	Unitrode	UC3844	
		UC3844A	
UC3845	LinearTech	LT1245	
UC3845A	Cherry Semi	CS3845	
	LinearTech	LT1245	
	Motorola	UC3845	
		UC3845A	
	Samsung	KA3845	
	TI	UC3845	
	Unitrode	UC3845	
		UC3845A	

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AT&T

Manufacturer Device	Replacement Source	Device	IC Master Page
AN0130	Universal	USH5007	
ATTM6084	IDT	IDT7MP6084	
ATTM6094	IDT	IDT7MP6094	
ATT3020	Xilinx	XC3020	
ATT3030	Xilinx	XC3030	
ATT3042	Xilinx	XC3042	
ATT3064	Xilinx	XC3064	
ATT3090	Xilinx	XC3090	
ATT7C106	Cypress	CY7C106	
	Hitachi	HM624256	
	IDT	IDT71028	
	LogicDev	L7C106	
	MicronSemi	MT5C1005	
	Mitsubishi	M5M51004	
	Motorola	MCM6228	
		MCM6229A	
ATT7C107	Cypress	CY7C107	
	Hitachi	HM621100	
	IDT	IDT71027	
	LogicDev	L7C107	
	MicronSemi	MT5C1001	
	Mitsubishi	M5M51001	
	Motorola	MCM6227A	
ATT7C108	Cypress	CY7C108	
	LogicDev	L7C108	
ATT7C109	Cypress	CY7C109	
	Hitachi	HM628128	
	IDT	IDT71024	
	LogicDev	L7C109	
	MicronSemi	MT5C1008	
	Motorola	MCM6226	
		MCM6226A	
	Sony	CXK581020	
ATT7C116	Cypress	CY6116	
		CY6116A	
		CY7C128	
	Hitachi	HM6116	
	IDT	IDT6116	
	LogicDev	L6116	
		L7C116	
	MicronSemi	MT4C1608	
		MT5C1608	
	Performance	P4C116	
ATT7C157	Cypress	CY7C157	
		CY7C157A	
	LogicDev	L7C157	
ATT7C161	Cypress	CY7C161	
	IDT	IDT71981	
	LogicDev	L7C161	
	MicronSemi	MT5C6406	
	Performance	P4C1981	
	Quality Semi	QS8881	
ATT7C162	Cypress	CY7C162	
	IDT	IDT71982	
	LogicDev	L7C162	
	MicronSemi	MT5C6407	
	Performance	P4C1982	
	Quality Semi	QS8882	
ATT7C164	Cypress	CY7C164	
	Hitachi	HM6288	
	IDT	IDT7188	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Mitsubishi	M5M5188	
	Motorola	MCM6288	
	Performance	P4C188	
	Quality Semi	QS8888	
	Sony	CXK5464	
	Toshiba	TC55416	
ATT7C165	IDT	IDT7198	
	LogicDev	L7C165	
	Performance	P4C198	
	Quality Semi	QS8885	
ATT7C166	Cypress	CY7B166	
		CY7C166	
	Hitachi	HM6789	
	IDT	IDT6198	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Motorola	MCM6290	
	Performance	P4C198	
	Quality Semi	QS8886	
	Sony	CXK5465	
	Toshiba	TC55417	
ATT7C167	Cypress	CY7C167	
	Hitachi	HM6267	
	IDT	IDT6167	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
	SGS-Thomson	MK41H67	
ATT7C168	Cypress	CY7C168	
	Hitachi	HM6268	
	IDT	IDT6168	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M21C68	
	Motorola	MCM6268	
	Performance	P4C168	
	Quality Semi	QS8768	
	SGS-Thomson	MK41H68	
ATT7C170	Cypress	CY7C170	
	IDT	IDT61970	
	LogicDev	L7C170	
	MicronSemi	MT5C1605	
	Motorola	MCM6270	
	Performance	P4C170	
ATT7C171	Cypress	CY7C171	
	IDT	IDT71681	
	LogicDev	L7C171	
	MicronSemi	MT5C1606	
	Performance	P4C1681	
	Quality Semi	QS8761	
ATT7C172	Cypress	CY7C172	
	IDT	IDT71682	
	LogicDev	L7C172	
	MicronSemi	MT5C1607	
	Performance	P4C1682	
	Quality Semi	QS8762	
ATT7C173	LogicDev	L7C173	
	SGS-Thomson	MK48S80	
ATT7C174	IDT	IDT7174	
	LogicDev	L7C174	
	SGS-Thomson	MK48S80	
ATT7C180	IDT	IDT6178	
	LogicDev	L7C180	
	Motorola	MCM4180	
	Quality Semi	QS8780	
	SGS-Thomson	MK41H80	
ATT7C181	IDT	IDT6177	
	LogicDev	L7C181	
ATT7C183	Cypress	CY7C183	
	Hitachi	HM62A168	
	LogicDev	L7C183	
	MicronSemi	MT56C0816	
	Quality Semi	QS8816	
	Sony	CXK7701	
	Toshiba	TC55187	
ATT7C184	Cypress	CY7C184	
	LogicDev	L7C184	
	MicronSemi	MT56C3816	
	Quality Semi	QS8817	
	Toshiba	TC55188	
ATT7C185	Cypress	CY7B185	
		CY7C185	
	Hitachi	HM6264	
	IDT	IDT7164	
	LogicDev	L7C185	
	MicronSemi	MT4C6408	
		MT5C6408	
	Mitsubishi	M5M5178	
	Motorola	MCM6264	
	Performance	P4C164	
	SGS-Thomson	MK41H65	
	Sony	CXK5863	
	Toshiba	TC5588	
ATT7C186	IDT	IDT7165	
	LogicDev	L7C186	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

T&T (Cont'd)

ufacturer ice	Replacement Source	Device	IC Master Page
T7C187	Cypress	CY7C187	
	Hitachi	HM6287	
	IDT	IDT7187	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	Performance	P4C187	
	SGS-Thomson	MK41H87	
	Sony	CXK5164	
	Toshiba	TC5562	
T7C191	Cypress	CY7C191	
	IDT	IDT71281	
	LogicDev	L7C191	
	Quality Semi	QS8821	
T7C192	Cypress	CY7C192	
	IDT	IDT71282	
	LogicDev	L7C192	
	Quality Semi	QS8822	
T7C194	Cypress	CY7B194	
		CY7C194	
	Hitachi	HM6208	
	IDT	IDT71258	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Motorola	MCM6208	
	Performance	P4C1258	
	Quality Semi	QS8828	
	Sony	CXK54256	
	Toshiba	TC55464	
7C195	Cypress	CY7C195	
	IDT	IDT61298	
	LogicDev	L7C195	
	MicronSemi	MT5C2565	
	Toshiba	TC55465	
7C196	Cypress	CY7C196	
	LogicDev	L7C196	
	Motorola	MCM6209	
7C197	Cypress	CY7C197	
	Hitachi	HM6207	
	IDT	IDT71257	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Mitsubishi	M5M5257	
	Motorola	MCM6207	
	Performance	P4C1257	
	Sony	CXK51256	
7C199	Cypress	CY7B199	
		CY7C199	
	Hitachi	HM62832	
	IDT	IDT71256	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
	Performance	P4C1256	
	Sony	CXK58255	
	Toshiba	TC55328	
7C341	MicronSemi	MT56C1289	
		MT58C1289	
71C174	LogicDev	L7C174	
056	Universal	USH5501	
156	Universal	USH5501	
1256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
1024	TI	TMS44C256	
CH1	Hitachi	HD153021	
01A	AMD	AM79C980	
	National	DP83955	
02	National	DP83950	
13	Level One	LTX901	
20A	AMD	79C98	
	Level One	LTX902	
	National	DP83922	
31	AMD	79C98	
	Fujitsu	86965	
	Intel	82586	
	National	DP83902	
51A	AMD	AM79856	
		AM79865	
	Motorola	MC68836	
		MC68837	
	National	DP83231	
		DP83241	
		DP83251	

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ATMEL

Manufacturer Device	Replacement Source	Device	IC Master Page
AM27256	TI	SMJ27C256	
ATF16V8	AMD	PALCE16V8	
	Lattice	GAL16V8	
ATF20V8	AMD	PALCE20V8	
	Lattice	GAL20V8	
ATF22V10	AMD	PALCE22V10	
	Cypress	PALCE22V10	
	Lattice	GAL22V10	
	TI	TICPAL22V10	
ATS2552	Philips	PML2552	
ATS415	Philips	PLC415	
ATS42VA12	Philips	PLC42VA12	
AT18V8	Philips	PLC18V8	
AT22V10	AMD	AmPAL22V10	
		PALCE22V10	
		PALC22V10	
	Cypress	CYPALC22V10	
		PALC22V10	
		PAL22V10	
	ICT	PEEL22CV10	
	Lattice	GAL22V10	
	Philips	PLQ22V10	
		PL22V10	
	TI	TIBPAL22V10	
		TICPAL22V10	
AT24C04	Ramtron	FM24C04	
AT27C010	AMD	AM27C010	
	Catalyst Semi	CAT27010	
	Krueger	27C010	
	TI	SMJ27C010	
		TMS27C010A	
		TMS27PC010A	
AT27C040	AMD	AM27C040	
AT27C1024	AMD	AM27C1024	
	Krueger	27C210	
	OKI	MSM27C1024	
		MSM271024	
	TI	SMJ27C210	
		TMS27C210A	
		TMS27PC210A	
AT27C128	AMD	AM27C128	
	Krueger	27C128-200	
		27C128-250	
	Microchip	27C128	
	TI	TMS27C128	
		TMS27PC128	
AT27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	Microchip	27C256	
	OKI	MSM27C256	
	SEEQ	27C256	
	TI	TMS27C256	
		TMS27PC256	
	Waferscale	WS27C256	
AT27C256-15DM	TI	SMJ27C256-15	
AT27C256-20DM	TI	SMJ27C256-20	
AT27C512	AMD	AM27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	Microchip	27C512	
	TI	SMJ27C512	
		TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Waferscale	WS27C512	
AT27C512-20DM	TI	SMJ27C512-20	
AT27C512-25DM	TI	SMJ27C512-25	
AT27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
AT27HC1024	Catalyst Semi	CAT27C210	
AT27HC191	Waferscale	WS57C191	
AT27HC256	AMD	AM27C256	
	Catalyst Semi	CAT27HC256	
	Cypress	CY7C274	
	Waferscale	WS57C256	
AT27HC291	Waferscale	WS57C291	
AT27HC64	AMD	AM27C64	
	Microchip	27HC64	
	Waferscale	WS57C64	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
AT27HC641	Microchip	27HC641	
	Waferscale	WS57C49	
AT27HC642	Waferscale	WS57C49	
AT27LV010	AMD	AM27LV010	
AT27LV512	AMD	AM27LV512	
AT27256	TI	TMS27C256	
		TMS27PC256	
AT28C04	EXEL	XL2804	
	Microchip	28C04	
	NEC	µPD28C04	
	Ramtron	FM1208S	
AT28C16	Catalyst Semi	CAT28C16	
	EXEL	XL28C16	
	Microchip	28C16	
	Ramtron	FM1408S	
	Samsung	KM28C16	
AT28C17	Microchip	28C17	
	Samsung	KM28C17	
AT28C256	NEC	µPD28C256	
	Samsung	KM28C256	
	SEEQ	28C256	
AT28C64	EXEL	XL2865	
	Fujitsu	MBM28C64	
	Microchip	28C64	
	NEC	µPD28C64	
	OKI	MSM28C64	
	Ramtron	FM1608S	
	Samsung	KM28C64	
	SEEQ	28C64	
		28C65	
		55C65	
AT28HC16	SEEQ	38C16	
AT28HC191	Cypress	CY7C292	
	SEEQ	36C16	
AT28HC256	SEEQ	28HC256	
AT28HC291	Cypress	CY7C293	
	SEEQ	36C16	
AT28HC64	SEEQ	28C64	
AT28HC642	Cypress	CY7C261	
AT28MC010	Dense-Pac	DPE51288	
	SEEQ	M28C010	
AT28MV010	Dense-Pac	DPE51288	
AT28PC64	EXEL	XL28C64	
		XL2864	
	Fujitsu	MBM28C64	
	Samsung	KM28C64	
	SEEQ	28C64	
AT38256	Hyundai	HY62256A	
AT3864	Hyundai	HY6264A	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
AT3864L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
AT76C176	Brooktree	BT475	
		BT476	
	SGS-Thomson	G176	
28C17	Catalyst Semi	CAT28C17	
28C64	Catalyst Semi	CAT28C64	
2864	Catalyst Semi	CAT28C65	

Avasem Corp.

Manufacturer Device	Replacement Source	Device	IC Master Page
AV9103	Startech	ST49C103	
AV9104	Startech	ST49C104	
AV9106	Startech	ST49C106	
AV9107	Startech	ST49C107	
AV9155	Startech	ST49C155	

Benchmarq

Manufacturer Device	Replacement Source	Device	IC Master Page
	Dallas	DS1387	
BQ2201	Dallas	DS1210	
BQ2201SN	Dallas	DS1210S	
BQ2204	Dallas	DS1221	
BQ2204PN	Dallas	DS1221	
BQ2204SN	Dallas	DS1221S	
BQ3285	Dallas	DS1285	
	SGS-Thomson	MK48T85	
BQ3287	Dallas	DS1287	
	SGS-Thomson	MK48T87	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
BQ3287A	Dallas	DS1287A	
BQ4010	Dallas	DS1225	
	SGS-Thomson	MK48Z08	
		MK48Z18	
BQ4011	Dallas	DS1230	
		DS1235	
BQ4013	Dallas	DS1245	
BQ4014	SGS-Thomson	M48Z256	
BQ4015	SGS-Thomson	M48Z512	
BQ4024	SGS-Thomson	M48Z128	
BQ4025	SGS-Thomson	M48Z256	

Brooktree

Manufacturer Device	Replacement Source	Device	IC Master Page
BT103	GEC Plessey	ZN454	
BT108	GEC Plessey	SP97618	
BT444	GEC Plessey	ZN454	
BT450	GEC Plessey	ZN455	
	Krueger	450	
BT453	Krueger	453	
BT457	IDT	IDT75C457	
BT458	IDT	IDT75C458	
BT471	Krueger	471	
BT473	Raytheon	TMC0473	
BT475	ATMEL	AT76C176	
	Krueger	475	
BT476	ATMEL	AT76C176	
	Krueger	476	
BT477	Krueger	477	
	Raytheon	TMC0478	
BT478	Krueger	478	
	Raytheon	TMC0478	

Burr-Brown

Manufacturer Device	Replacement Source	Device	IC Master Page
ADCHZ	MicroNet	ADC85	
ADC574	AD	AD574	
	Harris	HI574	
	Maxim	MX574	
	MicroNet	MN574	
	MicroPwr	MP574	
	Signal Proc	HADC574	
	Sipex	HS574	
ADC574A	MicroNet	MN574A	
	Signal Proc	HADC574Z	
ADC60	GEC Plessey	ZN447	
♦ ADC600	AD	CAV1210	
ADC601	MicroNet	MN5246	
		MN5248	
ADC603	Sipex	SP9560	
ADC674	AD	AD674	
	Harris	HI674	
	Maxim	MX674	
	Signal Proc	HADC674	
	Sipex	SP674	
ADC674A	MicroNet	MN674	
		MN674A	
	Signal Proc	HADC674Z	
ADC676	AD	ADI376	
		AD376	
ADC71	MicroNet	MN5280	
		MN5282	
ADC76	AD	AD376	
	Sipex	HS9576	
ADC774	Harris	ADC774	
		HI774	
	Maxim	MAX174	
	MicroNet	MN774	
	Signal Proc	SPT774	
ADC80	AD	ADADC80	
	GEC Plessey	ZN432	
		ZN503	
	Harris	HI674	
	MicroNet	ADC80	
		MNADC80	
	National	ADC1080	
		ADC1280	
ADC803	AD	HAS1202	
ADC82	GEC Plessey	ZN439	
		ZN448	
	Sipex	ADC82	
ADC84	AD	ADADC84	
		AD5240	
	Datel	ADCHX12	
	GEC Plessey	ZN503	
	Harris	HI674	
	MicroNet	ADC84	
		MNADC84	

(Continued)

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Burr-Brown (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC84			(Cont'd)
	Sipex	HSADC85	
	TeledyneP	TPADC85	
ADC85	AD	ADADC85	
		AD5240	
	MicroNet	ADC85	
		MNADC85	
	Sipex	HSADC85	
	TeledyneP	TPADC85	
ADC85H	AD	ADADC85	
	Datel	ADCHX12	
	ILC-DDC	ADH8585	
		DACS	
	MicroNet	MNADC85	
	TeledyneP	TPADC85	
ADC87	**MicroNet**	**ADC87**	(3690)
		MNADC87	
	TeledyneP	TPADC87	
ADS574	MicroNet	ADS574	
	Signal Proc	HADC574	
ADS774	MicroNet	ADS774	
	Signal Proc	HADC774	
ADS7800	MicroNet	ADS7800	
	Sipex	SP7800	
AD515	AD	AD515	
		OP80	
AD774	Harris	HI774	
BB3553	Maxim	BB3553	
BB3554	Maxim	BB3554	
		MX3554	
BB4085	**AD**	**PKD01**	(3541)
BUF600	**AD**	**AD9620**	(3530)
	Elantec	EL2033	
	Harris	HFA5033	
	Siliconix	SI581	
BUF601	**AD**	**AD9630**	(3530)
	Comlinear	CLC100	
	Elantec	EL2072	
DAC543	Maxim	MAX543	
DAC667	AD	AD667	
DAC70	Harris	ICL7121	
DAC700	AD	ADDAC71	
		ADDAC72	
	Datel	DAC71	
		DAC72	
	Harris	HIDAC16	
	MicroNet	MN3290	
		MN3290I	(3692)
		MN3300	
		MN3310	
DAC701	Datel	DACHP16	
	MicroNet	**MN3290V**	(3692)
DAC702	**MicroNet**	**MN3292I**	(3692)
DAC703	AD	ADDAC71	
		ADDAC72	
	Datel	DACHP16	
		DAC71	
		DAC72	
	Harris	HIDAC16	
	MicroNet	**MN3292V**	(3692)
		MN3300	
		MN3310	
DAC705	Sipex	DAC9377	
DAC708	Sipex	DAC9332	
DAC709	Sipex	DAC9332	
DAC71	AD	ADDAC71	
	Datel	DACHP16	
		DAC71	
	Harris	ICL7121	
	MicroNet	MN3210	
		MN3290	
		MN3300	
		MN3310	
DAC72	AD	ADDAC72	
	Burr-Brown	DAC72	
	Datel	DACHP16	
		DAC72	
	Harris	ICL7121	
	MicroNet	MN3290	
		MN3300	
		MN3310	
DAC729	AD	DAC1136	
DAC7528	AD	DAC7528	
	MicroPwr	MP7528	
	Sipex	HS7528	
DAC7541	AD	AD7521	
		AD7531	
		AD7541	
		PM7541	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
DAC7541			(Cont'd)
	Harris	AD7521	
		AD7531	
		AD7541	
	Maxim	AD7521	
		AD7531	
		AD7541	
		MX7541	
	MicroPwr	MP7531	
		MP7541	
		MP7545	
		MP7621	
		MP7623	
	National	AD7521	
		AD7531	
	Sipex	HS7541	
DAC7545	AD	AD7545	
		PM7545	
	Harris	AD7545	
	Maxim	AD7545	
		MX7545	
	MicroPwr	MP7542	
		MP7622	
	Sipex	HS7545	
DAC80	AD	ADDAC80	
	Datel	DACHY12	
	Harris	HIDAC80	
		HI5660	
		HI5680	
		HI5690	
	MicroNet	DAC80	
		MNDAC80	
	National	DAC1280	
		DAC1286	
	Sipex	HSDAC80	
DAC800	MicroNet	DAC80	
		DAC85	
		MNDAC80	
DAC8012	AD	DAC8012	
DAC8043	AD	DAC8043	
DAC811	AD	AD3860	
	Harris	HI5811	
	Sipex	HSDAC87	
DAC82	GEC Plessey	ZN426	
DAC85	AD	ADDAC85	
	Datel	DACHZ12	
	Harris	HIDAC85	
		HI5685	
	MicroNet	DAC85	
		MNDAC85	
		MN3850	(3692)
	National	DAC1285	
DAC85H	AD	ADDAC85	
	Datel	DACHZ12	
	Harris	HI5685	
	MicroNet	MNDAC85	
		MN3850	(3692)
	National	DAC1285	
		DAC1287	
DAC850	MicroNet	DAC80	
		DAC85	
DAC851	**MicroNet**	**DAC87**	(3692)
DAC87	AD	ADDAC87	
	Harris	HI5687	
	MicroNet	**DAC87**	(3692)
		MNDAC87	
	National	DAC1287	
	Sipex	SPDAC87	
DAC87H	AD	ADDAC87	
	Datel	DACHZ12	
	Harris	HI5687	
	ILC-DDC	DAC87	
	MicroNet	MNDAC85	
		MNDAC87	
		MN3850	(3692)
	National	DAC1285	
		DAC1287	
	Sipex	HSDAC87	
DAC90	GEC Plessey	ZN426	
DF1700	NPC	SM5813	
HI506A	AD	AD7506	
		MUX16	
	Harris	HI506	
		IH6116	
	MicroPwr	MP7506	
	Siliconix	DG506	
HI507A	AD	AD7507	
		MUX28	
	Datel	**MXD807**	(3570)
	Harris	HI507	
		IH5208	
		IH6216	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
HI507A			(Cont'd)
	MicroPwr	MP7507	
	Siliconix	DG507	
HI508A	AD	MUX08	
	Datel	**MX808**	(3570)
	Harris	HI508	
	Maxim	HI0508	
		HI0509	
		MAX358	
	MicroPwr	MP7508	
	National	LF11508	
	Siliconix	DG508	
HI509A	AD	MUX24	
	Datel	**MXD409**	(3570)
	Harris	HI509	
	Maxim	MAX359	
	MicroPwr	MP7509	
	National	LF11509	
	Siliconix	DG509	
HOS100	National	LH0033	
INA101	AD	AD521	
		AD524	
		AD606	(3541)
		AD624	
		AD625	
INA102	AD	AD524	
		AD624	
INA105	**AD**	**AMP03**	(3520)
		SSM2141	(3520)
INA110	AD	AD524	
		AD624	
INA111	AD	AMP02	
INA114	AD	AD620	
		AMP02	
ISO100	AD	AD289	
ISO103	**AD**	**AD202**	(3521)
		AD204	(3521)
ISO107	**AD**	**AD210**	(3521)
ISO113	**AD**	**AD202**	(3521)
		AD204	(3521)
		AD210	(3521)
ISO212	**AD**	**AD202**	(3521)
		AD204	(3521)
		AD208	
MPC100	**AD**	**AD9300**	(3524)
	Gennum	GX434	
	Maxim	MAX454	
	Siliconix	D6534	
MPC16	AD	AD7506	
		MUX16	
	Datel	**MX1606**	(3570)
	Harris	HI506	
		HI546-5	
		IH6116	
	MicroPwr	MP7506	
	Siliconix	DG506	
MPC4	AD	MUX24	
	Datel	**MXD409**	(3570)
	Harris	HI509	
		HI549-5	
		IH5208	
	MicroPwr	MP7509	
	Siliconix	DG509	
MPC506	AD	AD7506	
		MUX16	
	Datel	**MX1606**	(3570)
	Harris	HI506	
		IH6116	
	MicroPwr	MP7506	
	Siliconix	DG506	
MPC507	AD	AD7507	
		MUX28	
	Datel	**MXD807**	(3570)
	Harris	HI507	
		IH5208	
		IH6216	
	MicroPwr	MP7507	
	Siliconix	DG507	
MPC508	AD	MUX08	
	Datel	**MX808**	(3570)
	Harris	HI508	
		IH5108	
		IH6108	
	Maxim	HI0508	
		MAX358	
	MicroPwr	MP7508	
	National	LF11508	
	Siliconix	DG508	
MPC509	AD	MUX24	
	Datel	**MXD409**	(3570)
	Harris	HI509	
	Maxim	HI0509	
		MAX359	

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Manufacturer Device	Replacement Source	Device	IC Mast Pa
MPC509			(Cont'c
	MicroPwr	MP7509	
	National	LF11509	
	Siliconix	DG509	
MPC8	AD	AD7507	
		MUX08	
		MUX28	
	Datel	**MXD807**	(3570
		MX808	(3570
	Harris	HI507	
		HI508	
		HI547-5	
		HI548	
		IH5108	
		IH6108	
		IH6216	
	MicroPwr	MP7507	
		MP7508	
	Siliconix	DG507	
		DG508	
MPC8S	**Datel**	**MX808**	(3570
MPC800	Datel	MX1616	
	Harris	HI516	
		IH6116	
MPC801	Datel	MX818	
	Harris	HI518	
		IH5108	
		IH5208	
		IH6108	
MPY100	AD	AD532	
MPY534	AD	AD534	
MPY600	**AD**	**AD734**	(3525
		AD834	(3525
	Harris	**HA2546**	(3637
		HA2547	
	Motorola	MC1595	
		MC1596	
OPA101	AD	OP42	
OPA1013	**AD**	**AD708**	(3528
		OP237	
	LinearTech	LT1013	
	National	LM324	
	TI	LT1013	
OPA1014	LinearTech	LT1014	
OPA102	AD	OP44	
OPA103	AD	OP41	
OPA104	AD	OP80	
OPA111	AD	AD545	
		AD645	
		OP111	
		OP41	
	Harris	HA5170	
		HA5180	
	National	LH0052	
	Sipex	SP111	
	TI	TLC2201	
OPA121	AD	AD503	
		AD506	
		AD545	
		AD546	(3528
	Harris	CA3140	
	National	LF13741	
		LH0022	
		LH0042	
		LH740	
	Sipex	SP121	
OPA128	AD	OP80	
OPA156	AD	PM155	
		PM156	
	National	LF351	
OPA156A	AD	PM155A	
		PM156A	
	LinearTech	LF155	
		LF156	
	National	LF155	
		LF156	
		LF351	
OPA177	AD	ADOP07	
		AD705	
		AD707	(3526
		AD741	
		OP07	
		OP177	
	Harris	HAOP07	
	LinearTech	LT1001	
		OP7	
	Motorola	MC1741	
	Raytheon	OP7	
OPA21	AD	OP21	
♦ OPA21	AD	OP12	
		OP20	
		OP21	
		OP90	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

rr-Brown (Cont'd)

ufacturer ice	Replacement Source	Device	IC Master Page
A21	Harris	HA5141	
	LinearTech	LT1008	
		LT1012	
A2107	AD	AD712	
		AD746	(3512, 3528)
	Harris	HA5170	
		HA5180	
	Motorola	MC34083	
A211	AD	OP215	
	TI	TLC2202	
A2111	**AD**	**AD706**	(3526)
		OP237	
	Harris	HA5102	
		LF353	
	Motorola	LF353	
	National	LF353	
		LF412	
A2541	**Apex**	**PA25**	(3545)
A2604	AD	AD712	
	Philips	NE5532	
	TI	TL082	
27	AD	ADOP27	
		AD510	
		OP27	
	Harris	HAOP27	
		HAOP37	
		HA5127	
		HA5130	
		HA5135	
	LinearTech	LT1007	
		OP27	
	Raytheon	OP27	
		RC714	
37	AD	ADOP37	
		OP37	
	Harris	HAOP37	
		HA5137	
		HA5147	
	LinearTech	LT1037	
		OP37	
	Raytheon	OP37	
404	AD	AD704	
		AD713	(3526, 3512)
		OP471	
	Harris	HA5114	
	National	LF444	
	TI	TL084	
445	Harris	HA2640	
		HA2645	
501	**Apex**	**PA51**	(3545)
		PA61	(3545)
502	**Apex**	**PA12**	(3545)
511	**Apex**	**PA01**	(3545)
		PA10	(3545)
		PA11	
512	**Apex**	**PA10**	(3545)
		PA12	(3545)
541	**Apex**	**PA02**	(3545)
		PA07	(3545)
		PA10	(3545)
		PA12	(3545)
		PA51	(3545)
		PA61	(3545)
	National	LM12	
602	AD	AD711	
		OP44	
	Motorola	MC34001	
		MC34081	
	National	LF411	
604	AD	AD711	
	Motorola	TL071	
		TL081	
	Philips	NE5534	
605	AD	ADLH0032	
		AD380	
		AD382	
		AD744	(3512, 3528)
606	AD	AD381	
		AD544	
		OP15	
		OP16	
	LinearTech	LT1022	
		LT1055	
		LT1056	
		OP15	
		OP16	
520	Harris	HFA0005	
521	Harris	HFA0002	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
OPA623	**Harris**	**HFA1105**	(3637)
OPA627	**AD**	**AD743**	(3512, 3528)
		AD744	(3512, 3528)
	National	LM627	
OPA633	AD	HOS100	
	Elantec	ELH0033	
		EL2003	
		EL2004	
	Harris	HA5033	
	VTC	VA033	
OPA637	**AD**	**AD845**	(3512, 3530)
	National	LM637	
OPA644	AD	AD9617	
OPA660	AD	AD9610	
	Comlinear	CLC404	
		CLC409	
	Elantec	EL2041	
OPA77	AD	OP77	
	Motorola	LM307	
OP27	Raytheon	OP27	
OP37	Raytheon	OP37	
OP77	Harris	HA5177	
PCM56	AD	AD1856	
PCM61	AD	AD1860	
PCM75	**AD**	**AD1376**	(3510, 3538)
	Analogic	MP8014	
		MP8016	
PGA100	National	LH0086	
PGA102	National	LH0086	
PWR631	Micrel	MIC631	
REF01	**AD**	**REF01**	(3536)
	LinearTech	REF01	
	Maxim	REF01	
REF02	AD	REF02	
	LinearTech	REF02	
	Maxim	REF02	
REF05	AD	REF05	
REF10	**AD**	**REF01**	(3536)
		REF10	
	MicroPwr	REF10	
REF1004	LinearTech	LT1004	
REF1004-1.2	LinearTech	LT1004-1.2	
REF1004-2.5	LinearTech	LT1004-2.5	
REF102	AD	ADREF01	
		AD2700	
		AD2701	
		AD2702	
		AD2710	
		AD2712	
		AD581	
		AD584	
		AD587	(3536)
		REF01	(3536)
		REF10	
	LinearTech	LT1021	
	Maxim	REF01	
REG1117	LinearTech	LT1117	
SDM862	Sipex	SP9462	
SDM863	Analogic	MP6812	
SDM872	Sipex	HS9410	
		SP9472	
SDM873	AD	DAS1128	
	MicroNet	MN7150	
	Sipex	SP9473	
SHC298	AD	SMP10	
	Datel	SHMLM2	
	National	LF198	
		LF298	
		LF398	
	TI	LF198	
		LF398	
SHC5320	AD	AD582	
		AD583	
		AD585	
	Datel	SHM20	
	Harris	HA5320	
	National	LH0053	
SHC600	**MicroNet**	**MN379**	(3693)
SHC601	Datel	SHM360	
		SHM361	
SHC76	**AD**	**AD389**	(3532)
	MicroNet	**MN374**	(3693)
	Sipex	HS9714	
SHC80	National	LF398	
SHC803	Datel	SHM4860	
	ILC-DDC	THA0523	
SHC804	AD	HTC0300	
	Burr-Brown	**SHC804**	(3471)
	Datel	SHM4860	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
SHC804			(Cont'd)
	ILC-DDC	THA0523	
	MicroNet	**MN376**	(3693)
	TeledyneP	TP4860	
SHC85	AD	SHC85	
		SMP10	
	Harris	HA2425	
	National	LF398	
		LH0053	
VFC100	AD	AD651	
VFC101	AD	AD652	
VFC32	**AD**	**ADVFC32**	(3535)
	National	LM131	
		LM331	
VFC320	Raytheon	RC4153	
VFC42	Raytheon	RC4152	
VFC52	Raytheon	RC4153	
3503	Elantec	EHA2505	
3507	AD	AD507	
		AD509	
	Elantec	EHA2525	
	Harris	HA2520	
		HA2525	
		HA2620	
	National	LM6361	
3507J	Harris	HA2525-5	
3508	Harris	HA2625	
♦ 3508	AD	AD507	
	Harris	HA2525-5	
		HA2620	
3533	National	LH0033	
3542	National	LH0042	
3550	National	LM6361	
3551	Harris	HA5160	
		HA5162	
	National	LH0024	
		LM6361	
3553	Maxim	BB3553	
3554	AD	AD3554	
		AD844	(3526, 3512, 3529)
	Apex	**WA01**	(3544)
	Harris	HFA0001	
	Maxim	BB3554	
	National	LH0032	
3571	**Apex**	**PA01**	(3545)
		PA07	(3545)
		PA10	(3545)
		PA12	(3545)
		PA61	(3545)
	National	LM675	
3572	**Apex**	**PA01**	(3545)
		PA07	(3545)
		PA10	(3545)
		PA12	(3545)
		PA61	(3545)
3573	**Apex**	**PA73**	(3545)
	National	LM675	
3580	Apex	PA80	
		PA83	(3544)
3581	Apex	PA81	
		PA81J	(3544)
3582	Apex	PA82	
		PA82J	(3544)
3583	**Apex**	**PA08**	(3544)
		PA83	(3544)
	TeledyneP	1480	
3584	**Apex**	**PA84**	(3544)
3626	National	LH0036	
4202K	Raytheon	RC4200	
		RC4200A	
4205K	Raytheon	RC4200	
		RC4200A	
4341	**AD**	**AD736**	(3531)
		AD737	

Calogic

Manufacturer Device	Replacement Source	Device	IC Master Page
LH0032	Harris	HA2542	
OP27	Harris	HA5127	
OP37	Harris	HA5137	
OP77	Harris	HA5177	

Catalyst Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
CAT22C10	NCR	NCR52210	
	Xicor	X2210	
CAT22C12	NCR	NCR52212	
	Xicor	X2212	
CAT22C44	Xicor	X2444	
CAT24C04	Ramtron	FM24C04	
CAT27C210	AMD	AM27C1024	
	ATMEL	AT27HC1024	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
CAT27C210			(Cont'd)
	Hitachi	HN27C102	
	Intel	27210	
	Krueger	27C210	
	Mitsubishi	M5M27102	
	National	NMC27C1024	
	NEC	µPDC1024	
	OKI	MSM27C1024	
	TI	TMS27C210A	
		TMS27PC210A	
CAT27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
CAT27HC256	AMD	AM27C256	
	ATMEL	AT27HC256	
	Cypress	CY7C274	
	Hitachi	HN27C256	
	TI	TMS27C256	
		TMS27PC256	
	Waferscale	WS57C256	
CAT27010	AMD	AM27C010	
	ATMEL	AT27C010	
	Hitachi	HN27C1000	
	Intel	27010	
	National	NMC27C1023	
	OKI	MSM271000	
	TI	TMS27C010A	
		TMS27PC010A	
CAT27128	AMD	AM27128	
	Intel	P27128	
	NEC	µPD2764	
	OKI	MSM27128	
CAT27256	AMD	AM27256	
	Intel	P27257	
	Krueger	**27256-200**	(3663)
		27256-250	(3663)
		27256-300	(3663)
	Mitsubishi	M5M27256	
	OKI	MSM27256	
CAT27512	AMD	AM27512	
	Hitachi	HN27512	
	Krueger	**27512-200**	(3663)
		27512-250	(3663)
	Mitsubishi	M5M27512	
	OKI	MSM27512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
CAT2764	AMD	AM2764	
	Intel	P2764	
	NEC	µPD2764	
	OKI	MSM2764	
	TI	TMS27P64	
	Toshiba	TMM2764	
CAT28C16	ATMEL	AT28C16	
	EXEL	XL28C16	
		XL2816	
	Intel	2816	
	National	NMC2816	
	OKI	MSM28C16	
		MSM2816	
	Rockwell	R2816	
	Samsung	KM2816	
	SEEQ	2816	
	SGS-Thomson		
		M2816	
		TS28C16	
	Xicor	X2816	
CAT28C17	AMD	AM2817	
	ATMEL	28C17	
	Intel	2817	
	Samsung	KM2817	
	SEEQ	2817	
	SGS-Thomson		
		TS28C17	
CAT28C256	NEC	µPD28C256	
	OKI	MSM28C256	
CAT28C64	AMD	AM2864	
	ATMEL	28C64	
	EXEL	XL28C64	
		XL2864	
	Hitachi	HN58064	
	Intel	2864	
	NEC	µPD28C64	
	OKI	MSM2864	
	Ramtron	FM1608S	
	Samsung	KM2864	
	SEEQ	2864	
	Xicor	X2864	
CAT28C65	ATMEL	2864	
	Samsung	KM2864	
	SEEQ	2865	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Catalyst Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
CAT28F010	OKI	MSM28F101	
	TI	TMS29F010	
CAT28F020	Intel	28F020	
CAT28F512	Intel	28F512	
CAT35C102	EXEL	XL93LC56	
	Microchip	ER5912	
	OKI	MSM16812	
	Samsung	KM93C57	
CAT35C104	EXEL	XL93C66	
		XL93LC66	
	Samsung	KM93C67	
CAT35C202	Microchip	ER5912	
	OKI	MSM16912	
CAT35C204	EXEL	XL93C66	
		XL93LC66	
CAT5412	Crystal	CS5412	
CAT59C11	EXEL	XL93LC46	
	Microchip	ER5911	
	OKI	MSM16911	
	SGS-Thomson	TS59C11	
CAT7C199	LogicDev	L7C199	
CAT71C256	Fujitsu	MB84256	
	Hitachi	HM61256	
		HM62256	
	Hyundai	HY63C256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	Mitsubishi	M5M5256	
	OKI	MSM51257	
	Sharp	LH52250AL	
	Toshiba	TC53257	
CAT93C46	EXEL	XL93C46	
		XL93LC46	
	Hyundai	HY93C46	
	ICT	93C46	
	National	COP495	
		NMC9346	
		9346	
	NCR	NCR59308	
	OKI	MSM16811	
	Samsung	KM93C46	
	SGS-Thomson	TS93C46	
	Sierra	SC22011	

Cermetek Microelectronics

Manufacturer Device	Replacement Source	Device	IC Master Page
CH1816	Dallas	DS6112	
	XECOM	XE0002	
		XE0004	
CH1819	Dallas	DS2249	

Cherry Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
CH1526	Linfinity Micro	SG1526	
CS1009	LinearTech	LT1009	
CS101A	SiliconSys	SSI32H101A	
	VTC	VM101	
CS102	Allegro Micro	ULN3304M	
CS1070	LinearTech	LT1070	
CS116	SiliconSys	SSI32H116	
	VTC	VM116	
CS117	MicroLinear	ML117	
	SiliconSys	SSI32R117	
	VTC	VM117	
CS1524	Harris	CA1524	
	Linfinity Micro	SG1524	
CS1525	Linfinity Micro	SG1525	
CS1527	Linfinity Micro	SG1527	
CS166	Allegro Micro	ULN2429	
CS1842	Linfinity Micro	SG1842	
CS1843	Linfinity Micro	SG1843	
CS201	VTC	VM201	
CS2017	Elantec	EHA2017	
CS2524	Harris	CA2524	
	Linfinity Micro	SG2524	
CS2525	Linfinity Micro	SG2525	
CS2526	Linfinity Micro	SG2526	
CS2527	Linfinity Micro	SG2527	
CS2842	Motorola	UC2842	
	Unitrode	UC2842	
		UC2842D14	
CS2843	Linfinity Micro	SG2843NN16	
	Motorola	UC2843	
		UC2843AN6	
	Unitrode	UC2843	
		UC2843N	
CS2844	Linfinity Micro	SG2844	
	Motorola	UC2844	
CS2845	Linfinity Micro	SG2845	
	Motorola	UC2845	
CS289	National	LM1819	
CS2907	National	LM2907	
		LM2907N	
CS2917	National	LM2917	
		LM2917N	
CS293D	SGS-Thomson	L293D	
CS298	SGS-Thomson	L298	
CS299	Unitrode	UC3610	
CS34017	Motorola	MC34017	
CS3471	Motorola	MC3471	
CS3524	Harris	CA3524	
	Linfinity Micro	SG3524BN	
	Unitrode	UC3524	
CS3525	Unitrode	UC3525AN	
CS3527	Unitrode	UC3527AN	
CS3527AN	Unitrode	UC3527AN	
CS365	Linfinity Micro	SG3172	
	SGS-Thomson	L165	
CS3706	Unitrode	UC3706	
CS3717	Ericsson	PBL3717A	
CS3717A	Linfinity Micro	SG3718	
CS3770	Ericsson	PBL3770	
	Unitrode	UC3770	
CS384	Astec Semi	UC384	
CS3842	Motorola	UC3842	
		UC3842AN	
	Unitrode	UC3842AN	
CS3842A	Astec Semi	UC3842A	
	Micrel	**MIC38C42**	(3685)
		MIC38HC42	
CS3843	Motorola	UC3843	
		UC3843AN	
	Unitrode	UC3843	
CS3843A	Astec Semi	UC3843A	
	Micrel	**MIC38C43**	(3685)
		MIC38HC43	
CS3844	Linfinity Micro	SG3844	
	Micrel	**MIC38C44**	(3685)
		MIC38HC44	
	Motorola	UC3844	
CS3844A	Astec Semi	UC3844A	
CS3845	Astec Semi	UC3845A	
	Linfinity Micro	SG3845	
	Micrel	**MIC38C45**	(3685)
		MIC38HC45	
	Motorola	UC3845	
	Unitrode	UC3845	
CS3865	Motorola	MC34065P	
CS453	Motorola	MC3484	
CS510A	MicroLinear	ML510A	
	SiliconSys	SSI32R510A	
CS511	Hitachi	HA166008	
	MicroLinear	ML511R	
	SiliconSys	**SSI32R511**	(3778)
CS541	MicroLinear	ML541	
CS570	SiliconSys	SSI32R570	
CS593	Linfinity Micro	UC493	
CS595	Fujitsu	MB3760	
CS7100	Hitachi	HA13490	
CS7105	Hitachi	HA13490	
CS925	National	LM2925	
CS935	National	LM2935	
CS955	Linfinity Micro	SG29125	
	National	LM29125	
CS965	Linfinity Micro	SG29805	
	National	LM2985	
UC2844	Unitrode	UC2844	

Chips and Technologies

Manufacturer Device	Replacement Source	Device	IC Master Page
CS82C206	UMC	UM82C06	
CS82C211	UMC	UM82C211	
CS82C212	UMC	UM82C212	
CS82C215	UMC	UM82C215	
TMP8237	Siemens	SAB8237A	
TMP8259A	Siemens	SAB8259A	
82C605	Samsung	KS82C452	

California Micro Devices

Manufacturer Device	Replacement Source	Device	IC Master Page
CM1210	Dallas	DS1210	
CM1232	Crystal	CS1232	
	Dallas	DS1232	
CM8870	Teltone	M8870	
CM8880	Teltone	M8880	
CM8888	Teltone	M8888	
G65C21	**Rockwell**	**R65C21**	(3759)
G65SC02	**Rockwell**	**R65C02**	(3759)
	UMC	UMC6502	
G65SC102	**Rockwell**	**R65C102**	(3759)
G65SC112	**Rockwell**	**R65C112**	(3759)
G65SC22	**Rockwell**	**R65C22**	(3759)
	UMC	UMC6522	
G65SC32	UMC	UMC6532	
G65SC51	Harris	CDP65C51	
	Mitel	MD65SC51	
	Rockwell	**R65C51**	(3759)
	UMC	UMC6551	
G8870	Crystal	CS8870	
	GEC Plessey	MV8870	
	Mitel	MT8870	
	Teltone	M8870	
G8870C	Mitel	MT8870C	
G8880	Mitel	MT8880A	
	Teltone	M8880	
G8888	Teltone	M8888	
G8912B	National	TP3040	

Comlinear

Manufacturer Device	Replacement Source	Device	IC Master Page
CLC100	**Burr-Brown**	**BUF601**	(3459)
CLC110	**Harris**	**HFA1110**	(3637)
CLC114	Harris	HFA1412	
CLC115	Harris	HFA1412	
CLC400	**AD**	**OP260**	(3512, 3530)
	Harris	HFA0001	
		HFA1105	(3637)
CLC401	**AD**	**OP260**	(3512, 3530)
	Elantec	EL2071	
		EL2171	
	Harris	HFA0005	
		HFA1100	
		HFA1105	(3637)
CLC402	Harris	HFA0005	
		HFA1100	
		HFA1105	(3637)
CLC404	Burr-Brown	OPA660	
	Harris	HFA1100	
		HFA1105	(3637)
CLC406	Harris	HFA1100	
		HFA1105	(3637)
CLC409	Burr-Brown	OPA660	
	Harris	HFA1100	
		HFA1105	(3637)
CLC410	**Harris**	**HFA1145**	(3637)
CLC411	**Harris**	**HFA1145**	(3637)
CLC414	**Harris**	**HA5025**	(3637)
		HFA1405	
CLC415	**Harris**	**HA5025**	(3637)
		HFA1405	
CLC420	Harris	HFA0001	
		HFA0002	
		HFA0005	
CLC424	Harris	HFA0001	
		HFA0002	
		HFA0005	
CLC430	Harris	HA5020	
CLC501	**Harris**	**HFA1130**	(3637)
		HFA1135	(3637)
CLC502	**Harris**	**HFA1130**	(3637)
		HFA1135	(3637)
CLC520	Elantec	EL2082	
CTS0032	Elantec	EL2006	
OP400	Harris	HA5134	
		HA5234	
OP420	Harris	HA5144	

Commodore

Manufacturer Device	Replacement Source	Device	IC Master Page
MPS6500	**Rockwell**	**R6500**	(37
MPS6501	Rockwell	R6501	
MPS6502	**Rockwell**	**R6502**	(37
MPS6507	Rockwell	R6507	
MPS6512	**Rockwell**	**R6512**	(37
MPS6520	**Rockwell**	**R6520**	(37
MPS6532	**Rockwell**	**R6532**	(37
MPS6551	American Micro	S6551	
	Rockwell	**R6551**	(37
MP6551	American Micro	S6551	
R6522	**Rockwell**	**R6522**	(37
6545	Krueger	6845	

Crystal Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
CSZ5114	Analogic	ADC3201	
CSZ5116	Analogic	ADC4202	
CS1232	CMD Micro	CM1232	
	Dallas	DS1232	
	Maxim	MAX1232	
♦ CS202	Harris	CS22202	
	Sierra	SC11202	
	SiliconSys	**SSI75T202**	(37
♦ CS203	Harris	CD22203	
	Sierra	SC11203	
	SiliconSys	**SSI75T203**	(37
♦ CS204	Harris	CD22204	
	Motorola	MC145436	
	Sierra	SC11204	
	SiliconSys	SSI75T04	
CS2180	Dallas	DS2180	
	Level One	LXP2180	
CS3901	Thaler	VRE200	
CS3902	Thaler	VRE104	
CS5014	Analogic	ADC3202	
CS5016	Analogic	ADC4201	
		ADC4203	
CS5412	Catalyst Semi	CAT5412	
CS5501	**AD**	**AD7701**	(35
CS5503	**AD**	**AD7703**	(35
CS61534	Level One	LXT305	
CS61535	Level One	LXT305	
CS61574	Level One	LXT300	
		LXT304	
CS6158	Level One	LXT301	
CS7280	AD	AD7820	
	Lattice	LTC1099	
	Maxim	ADC0820	
		AD7820	
	National	ADC0820	
	Siliconix	LI7820	
	TI	ADC0820	
		TLC0820	
CS8005	SEEQ	NQ8005	
CS8023	SEEQ	DQ8023	
CS83C92	Fujitsu	NE8392	
	National	DP8392	
	Philips	NE8392	
	SEEQ	PQ83C92	
CS8870	CMD Micro	G8870	
	Teltone	M8870	
♦ CS8870	CMD Micro	G8870	
	GEC Plessey	MV8870	
	Mitel	MT8870	
	Sierra	SC11270	

Cypress Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
AM2147-45	Cypress	CY7C147-45DME	
CYC183	Toshiba	TC55187	
CYC184	Toshiba	TC55188	
CYC196	Quality Semi	QS86646	
CYC412	SGS-Thomson	MK45H01	
		MK4501	
CYC429	SGS-Thomson	MK45H03	
		MK4503	
CYM1220	Cypress	CY7M194	
CYM1240	IDT	IDT7M4042	
CYM1400	Dense-Pac	DPS41257	
CYM1420	Dense-Pac	DPS41288	
	EDI	ED8M8128	

(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ypress Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
CYM1420			(Cont'd)
	IDT	IDT8M824	
	MicronSemi	MT85C8128	
CYM1421	Dense-Pac	DPS41288	
	EDI	ED8M8128	
	IDT	IDT8M824	
CYM1422	IDT	IDT8MP824	
		IDT8M824	
CYM1423	Dense-Pac	DPS41288	
	IDT	IDT8M824	
	MicronSemi	MT85C8128	
CYM1441	IDT	IDT7M4034	
	Motorola	MCM8256	
CYM1460	IDT	IDT7MP4008	
CYM1461	IDT	IDT7MP4008	
		IDT7MP4058	
CYM1464	Dense-Pac	DPS512S8	
	EDI	ED8M8512	
	IDT	IDT7MB4048	
		IDT7M4048	
CYM1465	EDI	ED8F8512	
	IDT	IDT7M4048	
CYM1466	EDI	ED8M8512	
	IDT	IDT7M4048	
CYM1610	Dense-Pac	DPS8M656	
	IDT	IDT7MC4005	
		IDT8M656	
CYM1611	Dense-Pac	DPS16X17	
	EDI	EDH816H16	
		ED816H16	
	IDT	IDT7MC4005	
CYM1620	Dense-Pac	DPS8M624	
	IDT	IDT8M624	
		IDT8N624	
	Lattice	MT85C1664	
CYM1621	Dense-Pac	DPS1027	
	EDI	EDH816H64	
	IDT	IDT7M624	
CYM1622	Dense-Pac	DPS64S16	
	IDT	IDT7MP4028	
CYM1623	Dense-Pac	DPS8M624	
	IDT	IDT8M624	
CYM1624	Cypress	CY7MP4028	
CYM1626	Cypress	CY8MP624	
CYM1641	Cypress	CY7M4016	
	EDI	ED8M16256	
	IDT	IDT7M4016	
CYM1821	Cypress	CY7MP4031	
	IDT	IDT7MP4031	
	MicronSemi	MT8S1632	
		MT85C3216	
CYM1822	IDT	IDT7MC4032	
CYM1828	Cypress	CY7M4003	
CYM1830	Dense-Pac	DPS6432	
		DPS6433	
	EDI	ED8M3264	
	IDT	IDT7M4017	
		IDT7N4017	
CYM1831	EDI	ED8F3264	
	IDT	IDT7MP4036	
	MicronSemi	MT8S6432	
		MT85C3264	
	Motorola	MCM3264	
CYM1832	IDT	IDT7MP4036	
CYM1836	MicronSemi	MT4S12832	
CYM1840	EDI	ED8M32256	
	IDT	IDT7M4067	
CYM1841	EDI	ED8F32256	
	IDT	IDT7MP4045	
CYM4210	IDT	IDT7M205	
		IDT7M206	
		IDT7205	
CYM4220	IDT	IDT7M206	
CYM7C194	EDI	ED8464	
CYPALC16L8	AMD	AMPAL16L8	
		PAL16L8	
	Harris	HPL16LC8	
	Lattice	GAL16V8	
	National	F16L8	
		F16P8	
		PAL16L8	
	TI	TIBPAL16L8	
CYPALC16R4	AMD	AMPAL16R4	
		PAL16R4	
	Harris	HPL16RC4	
	Lattice	GAL16V8	
	National	F16RP4	
		F16R4	
			(Continued)
CYPALC16R4	National		(Cont'd)
		PAL16R4	
		PAL164	
	TI	TIBPAL16R4	
CYPALC16R6	AMD	AMPAL16R6	
		PAL16R6	
	Harris	HPL16RC6	
	Lattice	GAL16V8	
	National	F16RP6	
		F16R6	
		PAL16R6	
	TI	TIBPAL16R6	
CYPALC16R8	AMD	AMPAL16R8	
		PAL16R8	
	Harris	HPL16RC8	
	Lattice	GAL16V8	
	National	F16RP8	
		F16R8	
		PAL16R8	
	TI	TIBPAL16R8	
CYPALC22V10			
	AMD	AMPAL22V10	
		PALC22V10	
	ATMEL	AT22V10	
	TI	TIBPAL22V10	
CYPAL22V10	Lattice	GAL22V10	
		GAL26CV12	
CYPLDC20G10			
	AMD	PAL12L10	
		PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	Lattice	GAL20V8	
	National	PAL12L10	
		PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	TI	TIBPAL20L10	
		TIBPAL20L8	
		TIBPAL20R4	
		TIBPAL20R6	
		TIBPAL20R8	
CYPLDC20RA10			
	Lattice	GAL20RA10	
CYPLD20G10	AMD	PAL14L8	
		PAL16L6	
CY1E484	IDT	IDT101A484	
CY1E494	IDT	IDT101494	
CY10E301	National	PAL1016	
	TI	TIEPAL10H16	
CY10E302	National	PAL1016	
CY10E422	Fujitsu	MBM10422	
	Hitachi	HM10422	
	Motorola	MCM10422	
	National	DM10422	
		F10E422	
	NEC	μPD10422	
	Philips	10422	
CY10E470	Fujitsu	MBM10470	
	NEC	μPD10470	
CY10E474	Fujitsu	MBM10474	
	Hitachi	HM10474	
	National	DM10474	
		F10E474	
	NEC	μPB10474	
		μPD10474	
		μPD10474A	
CY10E484	Fujitsu	MBM10484	
	IDT	IDT10A484	
		IDT10484	
	NEC	μPD10A484	
		μPD10484	
CY10E494	Fujitsu	MBM10C494	
		MBM10494	
	Hitachi	HM10494	
	IDT	IDT10494	
	National	DM10494	
CY100E301	National	PAL10016	
	TI	SN10016	
CY100E302	National	PAL10016	
			(Continued)
CY100E422	Fujitsu	MBM100422	
	Hitachi	HM100422	
	National	DM100422	
		F100E422	
	NEC	μPD100422	
	Philips	100422	
CY100E470	Fujitsu	MBM100470	
	NEC	μPD100470	
CY100E474	Fujitsu	MBM100474	
	Hitachi	HM100474	
		HM10474	
	National	DM100474	
		F100E474	
	NEC	μPB100474	
		μPD100474	
	Philips	100474	
CY100E484	Fujitsu	MBM100484	
	IDT	IDT100A484	
		IDT100484	
		IDT101484	
	National	μPD100484	
	NEC	μPD100A484	
CY100E494	Fujitsu	MBM100C494	
	IDT	IDT100494	
	National	DM100494	
CY101E484	Fujitsu	MBM101A484	
		MBM101494	
CY101E494	Fujitsu	MBM101494	
	Hitachi	HM100494	
		HM101494	
	IDT	IDT100494	
		IDT101494	
CY10474	Philips	10474	
CY21L48	AMD	AM21L48	
	Cypress	CY2148	
		CY7C148	
	Fujitsu	MBM2148	
	Hitachi	HM6148	
	Intel	2148	
	National	NMC2148	
	Performance	P4C148L	
CY21L49	AMD	AM21L49	
	Cypress	CY2149	
		CY7C149	
	Fujitsu	MBM2149	
	Intel	2149	
CY2147	AMD	AM2147	
	Cypress	CY7C147	
	Fujitsu	MBM2147	
	Hitachi	HM4847	
	Intel	2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	National	NMC2147	
	NEC	μPD2147	
	Performance	P4C147	
	Toshiba	TMM315	
CY2148	AMD	AM2148	
	Cypress	CY21L48	
		CY7C148	
	Intel	M2148	
		2148	
	National	NMC2148	
	Performance	P4C148	
	SGS-Thomson		
		IMS1223	
CY2149	AMD	AM2149	
	Cypress	CY21L49	
		CY7C149	
	Fujitsu	MBM2149	
	Intel	M2149	
		2149	
	Krueger	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
	National	F93475	
	NEC	μPD2149	
	Performance	P4C149	
	SGS-Thomson		
		IMS1223	
CY27LS03	AMD	AM27LS03	
	National	DM54S189	
		DM74S189	
		DM74S289	
		F74LS189	
	TI	SN54LS189A	
		SN74LS189A	
CY27S03	AMD	AM27S03	
		AM29703	
			(Continued)
CY27S03			(Cont'd)
	Cypress	CY27S03A	
		CY54S189	
		CY7C189	
		CY74S189	
	National	DM54S189	
		DM74S189	
		DM74S289	
CY27S03A	AMD	AM27S03	
		AM27S03A	
	Cypress	CY27S03	
	National	DM54S189	
CY27S07	AMD	AM27LS07	
		AM27S07	
		AM27S07A	
		AM29701	
	Cypress	CY27S07A	
		CY7C190	
	National	DM75S07	
		DM85S07	
	TI	SN74LS219	
CY27S07A	AMD	AM27S07A	
	Cypress	CY27S07	
CY2901	Cypress	CY7C901	
	Waferscale	WS5901	
♦ CY2901	AMD	AM2901	
	AD	ADSP7C901	
	IDT	IDT39C01	
	Waferscale	WS5901	
CY2909	AMD	CY2909	
	Cypress	CY7C909	
	Motorola	IDM2909	
	National	IDM2909	
		IDM2909A	
CY2909A	AMD	AM2909A	
CY2910	AMD	CY2910	
	Cypress	CY2910A	
		CY7C910	
CY2910A	AMD	AM2910A	
	Cypress	CY2910	
CY2911	AMD	AM2911	
	Cypress	CY7C911	
	Motorola	IDM2911	
	National	IDM2911A	
CY2911A	AMD	AM2911A	
	National	IDM2911A	
CY3341	Cypress	CY7C401	
	IDT	IDT72401	
♦ CY3341	AMD	AM2841	
		AM3341	
♦ CY3341	National	F3341	
CY54S189	Cypress	CY27S03	
	National	DM54S189	
		F54S189	
	Philips	S54S189	
	TI	SN54S189	
♦ CY54S189	**Lansdale**	**SL54S189**	**(3674)**
	National	DM54S189	
		DM54S189A	
♦ CY54S189	Rochester	54S189	
CY6116	AMD	AM9128	
	AT&T	ATT7C116	
	Harris	HM65162	
	Hitachi	HM6116	
	IDT	IDT6116	
	LogicDev	L6116	
	Motorola	MCM2016	
CY6116A	AMD	AM9128	
	AT&T	ATT7C116	
	Hitachi	HM6116A	
	IDT	IDT6116	
	Motorola	MCM2016	
CY6117	IDT	IDT6116	
	LogicDev	L6116	
CY7B134	IDT	IDT7134	
CY7B135	IDT	IDT7134	
CY7B144	IDT	IDT7005	
CY7B161	MicronSemi	MT5C6406	
	Samsung	KM64B67	
CY7B162	MicronSemi	MT5C6407	
CY7B164	Hitachi	HM6788	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	Samsung	KM64B65	
CY7B166	AT&T	ATT7C166	
	Hitachi	HM6789	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Toshiba	TC55B417	
CY7B173	Motorola	MCM62486	
CY7B174	Motorola	MCM62940	
		MCM62940A	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Cypress Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
CY7B185	AT&T	ATT7C185	
	MicronSemi	MT5C6408	
	Motorola	MCM6264	
		MCM6764A	
	Toshiba	TC55B88	
CY7B194	AT&T	ATT7C194	
	IDT	IDT71B258	
	Motorola	MCM6708	
		MCM6708A	
	Quality Semi	QS86440	
	Toshiba	TC55B464	
		TC55464	
CY7B195	Hitachi	HM6709A	
	IDT	IDT61B298	
	Motorola	MCM6709	
		MCM6709A	
CY7B196	Quality Semi	QS86446	
	Toshiba	TC55B465	
		TC55465	
CY7B197	Motorola	MCM6207	
CY7B199	AT&T	ATT7C199	
	IDT	IDT71B256	
	Motorola	MCM6706	
		MCM6706A	
	Quality Semi	QS83280	
	Toshiba	TC55B328	
CY7B201	AMD	AM27H010	
CY7C102	Hitachi	HM624257	
CY7C106	AT&T	ATT7C106	
	Hitachi	HM624256	
	IDT	IDT71028	
	MicronSemi	MT5C1005	
	Mosel-Vitelic	MS621002	
	Motorola	MCM6228	
		MCM6229	
		MCM6229A	
	Sharp	LH521002	
CY7C107	AT&T	ATT7C107	
	MicronSemi	MT5C1001	
	Motorola	MCM6227	
		MCM6227A	
CY7C107A	MicronSemi	MT5C1001	
CY7C108	AT&T	ATT7C108	
	IDT	IDT71024	
	MicronSemi	MT5C1008	
	Mosel-Vitelic	MS621008	
	Motorola	MCM6226	
	NEC	µPD431000	
CY7C109	AT&T	ATT7C109	
	MicronSemi	MT5C1008	
	Mosel-Vitelic	MS621008	
	Motorola	MCM6226	
		MCM6226A	
	Sharp	LH521007	
		LH521008	
CY7C122	AMD	AM91L22	
		AM9122	
	Cypress	CY91L22	
		CY9122	
		CY93L422	
		CY93422	
	National	93L422	
	Performance	P4C422	
		P93U422	
CY7C128	AT&T	ATT7C116	
	Fujitsu	MB8128	
	GoldStar	GM76C28	
	Hitachi	HN6716	
	IDT	IDT6116	
	Intel	1433	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Lattice	ST16K8	
	LogicDev	L6116	
	MicronSemi	MT5C1608	
	Motorola	MCM2018	
	National	DM85S07	
	Performance	P4C116	
	Toshiba	TMM2015	
		TMM2018	
	UMC	UM6116	
	VLSI Tech	VT20C18	
		VT20C19	
CY7C128A	IDT	IDT6116	
	MicronSemi	MT5C1608	
	Motorola	MCM2018	
	Toshiba	TMM2018	
CY7C130	AMD	AM2130	
	IDT	IDT7130	
	VLSI Tech	VT2130	
CY7C131	IDT	IDT7130	
CY7C132	IDT	IDT7132	
	VLSI Tech	VT7132	
CY7C1342	IDT	IDT71342	
CY7C136	IDT	IDT71321	
CY7C1399	Motorola	MCM62V06	
CY7C140	AMD	AM2140	
	IDT	IDT7140	
CY7C141	IDT	IDT7140	
CY7C142	IDT	IDT7142	
		IDT71421	
	VLSI Tech	VT7142	
CY7C144	UMC	UM61168	
CY7C146	IDT	IDT71421	
CY7C147	AMD	AM21L47	
		AM2147	
	Cypress	CY2147	
	Hitachi	HM6147	
	Intel	2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	Motorola	MCM6147	
	National	NMC2147	
	NEC	µPD2147	
	Performance	P4C147	
	SGS-Thomson	IMS1203	
CY7C147-45DMB	Cypress	AM2147-45	
CY7C148	AMD	AM2148	
	Cypress	CY21L48	
		CY2148	
	Hitachi	HM6148	
	Intel	1223	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
	National	NMC2148	
	Performance	P4C148	
	SGS-Thomson	IMS1223	
CY7C149	AMD	AM2149	
	Cypress	CY21L49	
		CY2149	
	Performance	P4C149	
CY7C150	AMD	AM91L50	
		AM9150	
	Performance	P4C150	
CY7C155	Lattice	ST64E4	
CY7C157	AT&T	ATT7C157	
	LogicDev	L7C157	
CY7C157A	AT&T	ATT7C157	
CY7C161	AT&T	ATT7C161	
	IDT	IDT71981	
	LogicDev	L7C161	
	MicronSemi	MT5C6406	
	Performance	P4C1981	
	Quality Semi	QS8881	
CY7C161A	IDT	IDT71981	
	Performance	P4C1981	
	Quality Semi	QS8881	
CY7C162	AT&T	ATT7C162	
	IDT	IDT71982	
	LogicDev	L7C162	
		L7C192	
	MicronSemi	MT5C6407	
	Performance	P4C1982	
	Quality Semi	QS8882	
CY7C162A	IDT	IDT71982	
	Performance	P4C192	
	Quality Semi	QS8882	
CY7C164	AMD	AM99C164	
	AT&T	ATT7C164	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
	IDT	IDT7188	
	Intel	1620	
		1625	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	Lattice	ST64K4	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Mitsubishi	M5M5257	
	Motorola	MCM6288	
	National	F1620	
		F1621	
	NEC	µPD4362	
	Performance	P4C188	
	Quality Semi	QS8888	
	Samsung	KM6465	
	SGS-Thomson	IMS1620	
	Toshiba	TC55416	
	VLSI Tech	VT6288	
		VT64KS4	
CY7C164A	IDT	IDT7188	
	MicronSemi	MT5C6404	
	Performance	P4C188	
	Quality Semi	QS8888	
CY7C166	AMD	AM99C165	
	AT&T	ATT7C166	
	Fujitsu	MB81C75	
	IDT	IDT6198	
		IDT7198	
	Intel	1624	
	Krueger	6289-25	
		6289-35	
		6289-45	
	Lattice	ST64E4	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mosel-Vitelic	MS6267A	
	Motorola	MCM6290	
	National	F1622	
	NEC	µPD4363	
	Performance	P4C198	
	Quality Semi	QS8886	
		QS8886A	
	Samsung	KM6466	
	SGS-Thomson	IMS1624	
	Toshiba	TC55417	
	VLSI Tech	VT6289	
		VT65KS4	
CY7C166A	IDT	IDT7198	
	Performance	P4C198	
	Quality Semi	QS8886	
CY7C167	AMD	AM2167	
	AT&T	ATT7C167	
	Fujitsu	MBM8167	
		MB81C67	
	Harris	HM65262	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Intel	1400	
		1403	
		51C66	
		51C67	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
	Motorola	MCM2167	
	NEC	µPD2167	
		µPD4311	
	SGS-Thomson	IMS1403	
		MK41H67	
		MK41L67	
CY7C167A	Fujitsu	MB81C67	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167A	
	MicronSemi	MT5C1601	
	NEC	µPD4311	
CY7C168	AMD	AM2168	
		AM99CL68	
		AM99C68	
	AT&T	ATT7C168	
	Fujitsu	MBM8168	
		MB81C68	
	Hitachi	HM6168	
		HM6268	
	IDT	IDT6168	
	Intel	1420	
		1423	
		51C68	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	Lattice	ST16K4	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M21C68	
	Motorola	MCM1423	
		MCM6168	
		MCM6268	
	Performance	P4C168	
	Quality Semi	QS8768	
	SGS-Thomson	MK41H68	
	Toshiba	TMM2068	
	UMC	UM6168	
	VLSI Tech	VT20C68	
CY7C168A	Fujitsu	MB81C68	
		MB8168	
	Hitachi	HM6168	
		HM6268	
	IDT	IDT6168	
	MicronSemi	MT5C1604	
	Motorola	MCM6268	
	Toshiba	TMM2068	
CY7C169	AMD	AM2169	
	IDT	IDT6168	
	Intel	M2147	
		1421	
	MicronSemi	MT5C1604	
	Motorola	MCM6269	
	Performance	P4C169	
	Quality Semi	QS8769	
	SGS-Thomson	MK41H69	
	Toshiba	TMM2069	
	VLSI Tech	VT20C69	
CY7C169A	Motorola	MCM6269	
	Performance	P4C169	
	Quality Semi	QS8769	
CY7C170	AT&T	ATT7C170	
	IDT	IDT6197	
		IDT61970	
		IDT71681	
	LogicDev	L7C170	
	MicronSemi	MT5C1605	
	Motorola	MCM6270	
	Performance	P4C170	
	Toshiba	TMM2078	
	VLSI Tech	VT20C78	
		VT20C79	
CY7C170A	IDT	IDT6197	
	MicronSemi	MT5C1605	
	Motorola	MCM6270	
	Toshiba	TC2078	
CY7C171	AT&T	ATT7C171	
	IDT	IDT71681	
	LogicDev	L7C171	
	MicronSemi	MT5C1606	
	Performance	P4C1681	
	Quality Semi	QS8761	
	VLSI Tech	VT20C71	
CY7C171A	IDT	IDT71681	
	MicronSemi	MT5C1606	
	Performance	P4C1681	
	Quality Semi	QS8761	
CY7C172	AT&T	ATT7C172	
	IDT	IDT71682	
	LogicDev	L7C172	
	MicronSemi	MT5C1607	
	Performance	P4C1682	
	Quality Semi	QS8762	
	VLSI Tech	VT20C72	
CY7C172A	IDT	IDT71682	
	MicronSemi	MT5C1607	
	Performance	P4C1682	
	Quality Semi	QS8762	
CY7C182	IDT	IDT7169	
	Toshiba	TC5589	
CY7C183	AT&T	ATT7C183	
	Hitachi	HM62A168	
	MicronSemi	MT56C0816	
	Mosel-Vitelic	V63C328	
	Samsung	KM78C80	
	Toshiba	TC55187	
♦ CY7C183	Rochester	69CE72	
CY7C184	AT&T	ATT7C184	
	MicronSemi	MT56C3816	
	Mosel-Vitelic	V63C330	
	Samsung	KM78C80	
	Toshiba	TC55188	
CY7C185	AT&T	ATT7C185	
	Dense-Pac	DPS9264	
	Fujitsu	MB8464	
	IDT	IDT7164	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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nufacturer ice	Replacement Source	Device	IC Master Page
7C185			(Cont'd)
	Krueger	6264-025	
		6264-035	
		6264-045	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mosel-Vitelic	MS6264A	
	Motorola	MCM6264	
	Performance	P4C164	
	Samsung	KM6264	
	SGS-Thomson	IMS1630	
	Sony	CXK5863	
	Toshiba	TC5561	
		TC5562	
		TC5563	
		TC5588	
	UMC	UM6164	
	VLSI Tech	VT20C98	
		VT20C99	
7C185A	IDT	IDT7164	
	MicronSemi	MT5C6408	
	Mosel-Vitelic	MS6264A	
	Performance	P4C164	
7C186	AMD	AM99C88	
	Fujitsu	MB81C78	
	Hitachi	HM6264	
	IDT	IDT7164	
	Intel	1630	
	Lattice	ST64K8	
	LogicDev	L7C185	
	Mitsubishi	M5M5165	
		M5M5178	
	Mosel-Vitelic	MS6264A	
	Motorola	MCM6064	
		MCM61L64	
		MCM6164	
		MCM6264	
	Performance	P4C164	
	Samsung	KM6264	
	Toshiba	TC2088	
		TC5563	
		TC5565	
		TMM2088	
	UMC	UM6164	
7C186A	IDT	IDT7164	
	Performance	P4C164	
7C187	AMD	AM99C641	
	AT&T	ATT7C187	
	Fujitsu	MB81C71	
		MB8171	
	Hitachi	HM6287	
		HM6787	
	IDT	IDT7169	
		IDT7187	
	Intel	1600	
		1601	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	Lattice	ST64K1	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM62L87	
		MCM6287	
	National	F1600	
		F1601	
	NEC	µPD4361	
	Performance	P4C187	
	SGS-Thomson	IMS1600	
	Toshiba	TC5561	
		TC5562	
	VLSI Tech	VT6287	
7C187A	IDT	IDT7187	
	MicronSemi	MT5C6401	
	Performance	P4C187	
7C188	MicronSemi	MT5C2889	
	Motorola	MCM6205	
	Sharp	LH52259	
	Toshiba	TC55329	
7C189	Cypress	CY27S03	
	National	DM54S189	
		DM74S189	
		DM74S289	
		F54F189	
		F74F189	
	TI	SN54HCT189	
		SN54HC189	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
CY7C189	TI		(Cont'd)
		SN74HCT189	
		SN74HC189	
		SN74S189	
		TMS7489	
CY7C190	Cypress	CY27S07	
	National	DM75S07	
		F54F219	
		F74F219	
	TI	SN54LS219	
		SN74HC219	
CY7C191	AT&T	ATT7C191	
	IDT	IDT71281	
	LogicDev	L7C191	
	Paradigm	PDM41251	
	Samsung	KM68257	
CY7C192	AT&T	ATT7C192	
	Fujitsu	MB81C86	
	IDT	IDT7128	
	Paradigm	PDM41252	
CY7C194	AT&T	ATT7C194	
	Fujitsu	MB81C84	
		MB81C84A	
	Hitachi	HM6708A	
		HN6208	
		HN6708	
	IDT	IDT71B258	
		IDT71258	
	Intel	1800	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Mosel-Vitelic	MS62252	
		MS62252A	
	Motorola	MCM6208	
		MCM6708	
	NEC	µPD43254	
	Paradigm	PDM41258	
	Performance	P4C1258	
	Quality Semi	QS86440	
	Samsung	KM64257	
		KM64257A	
	Sharp	LH52252	
	Sony	CXK54256	
	TI	TMS64C256	
	Toshiba	TC55464	
CY7C195	AT&T	ATT7C195	
	Hitachi	HM6709	
		HM6709A	
	IDT	IDT61B298	
	MicronSemi	MT5C2565	
	Motorola	MCM6209	
		MCM6709	
	Sharp	LH52253	
	Toshiba	TC55465	
CY7C196	AT&T	ATT7C196	
	IDT	IDT6129	
		IDT61298	
		IDT71B298	
	LogicDev	L7C196	
	MicronSemi	MT5C2565	
	Mosel-Vitelic	MS62253A	
	Motorola	MCM6209	
	Paradigm	PDM41298	
	Samsung	KM64258	
	Toshiba	TC55465	
CY7C197	AT&T	ATT7C197	
	Fujitsu	MB81C81	
		MB81C81A	
	Hitachi	HN6207	
		HN6707	
	IDT	IDT71257	
	Intel	1800	
	LogicDev	L7C197	
	MicronSemi	MC5C2561	
		MT5C2561	
	Mitsubishi	M5M5257	
	Mosel-Vitelic	MS62251	
		MS62251A	
	Motorola	MCM6207	
	Paradigm	PDM41257	
	Performance	P4C1257	
	Samsung	KM61257	
		KM61257A	
	SGS-Thomson	IMS1800	
	Sharp	LH52251	
	Sony	CXK51256	
	TI	TMS61CD256	
CY7C198	GoldStar	GM76C256	
	Hitachi	HN62256	
	IDT	IDT71256	
	Intel	1830	

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Manufacturer Device	Replacement Source	Device	IC Master Page
CY7C198			(Cont'd)
	Krueger	62256-025	
		62256-030	
		62256-035	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256A	
	Motorola	MCM60256	
		MCM6206	
		MCM6706	
	NEC	µPD43256	
	Paradigm	PDM41256	
	Performance	P4C1256	
	Samsung	KM62256	
	Sony	CXK58258	
	TI	TMS68CE256	
	Toshiba	TC55328	
CY7C1987	Motorola	MCM6207	
CY7C199	AT&T	ATT7C199	
	Dense-Pac	DPS92256	
	Fujitsu	MB8287	
	Hitachi	HN62832	
	IDT	IDT71B256	
		IDT71256	
	Krueger	62256-025	
		62256-030	
		62256-035	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256	
		MS62256A	
	Motorola	MCM6206	
		MCM6706	
	OKI	MSM51257	
	Paradigm	PDM41256	
	Performance	P4C1256	
		P41256	
	Sharp	LH52254	
		LH52258	
	Sony	CXK58255	
		CXK58258	
	Toshiba	TC55257	
		TC55328	
CY7C2148	**Krueger**	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
CY7C2149	**Krueger**	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
CY7C225	AMD	AM27S25	
		PLE9R8	
		53RA481	
		63RA481	
	Fujitsu	MB7226	
	National	DM77SR25	
		DM77SR476	
		DM77ST476	
		DM87SR25	
		DM87SR476	
		DM87S625	
CY7C235	AMD	AM27S35	
		PLE10R8	
		53RS881	
		63RS881	
	Fujitsu	MB7232	
	National	DM77SR181	
		DM87SR181	
	TI	TMS38R85	
CY7C245	AMD	AM27S45	
		PLE11RA8	
		PLE11RS8	
		53RA1681	
		53RS1681	
		53R1681	
		63RA1681	
		63RS1681	
	Fujitsu	MB7238	
	TI	TMS38R165	
	Waferscale	WS57C45	
CY7C245A	AMD	AM27S45A	
	Waferscale	WS57C45	
CY7C251	TI	TMS27C128	
		TMS27PC128	
	Waferscale	WS57C128	
		WS57C51	
CY7C253	Waferscale	WS57C51	
CY7C254	AMD	AM27549	
	Fujitsu	MB71C46	
	Waferscale	WS57C51	
CY7C255	Waferscale	WS57C51	

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Manufacturer Device	Replacement Source	Device	IC Master Page
CY7C261	ATMEL	AT28HC642	
	Microchip	27HC641	
	National	F93Z667	
	Performance	P29VS864	
		P39VS864	
	Waferscale	WS57C49	
CY7C263	AMD	AM27S49	
		AM27549	
	Fujitsu	MB71C44	
		MB7144	
	National	F93Z667	
	NEC	µPD27HC65	
	Performance	P29VP864	
		P39VP864	
	Philips	N82HS641	
		S82HS641	
		27HC641	
	Sharp	LH5749	
	Waferscale	WS57C49	
CY7C264	AMD	AM27C49	
		AM27S49	
		AM27S49A	
		AM27549	
	Fujitsu	MB71C44	
		MB7144	
	Harris	HM76641	
	Lattice	ST64K8	
	Microchip	27HC641	
	National	F93Z565	
		F93Z665	
	NEC	µPD27HC65	
	Performance	P29VP864	
		P39VP864	
	Philips	N82HS641	
		S82HS641	
		27HC641	
	Sharp	LH5749	
	TI	TMS27C49	
	Waferscale	WS57C49	
CY7C266	AMD	AM27C64	
	Fujitsu	MBM27C64	
		MBM2764	
	Intel	2764	
	Microchip	27HC64	
	Sharp	LH5762	
		LH5763	
		LH5764	
	TI	TMS2764	
	Waferscale	WS57C64	
CY7C271	Microchip	27HC256	
	TI	TMS27C256	
		TMS27PC256	
	Waferscale	WS57C71	
CY7C274	AMD	AM27C256	
		AM27H256	
	ATMEL	AT27HC256	
	Catalyst Semi	CAT27HC256	
	Fujitsu	MBM27256	
	Hitachi	HM27C256	
		HM27256	
		HN27C256	
	Intel	27256	
	ICT	27CX256	
	Microchip	27HC291	
	Mitsubishi	M5M27256	
	Sharp	LH57254	
		LH57255	
		LH57256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC57H2556	
		TC57256	
		TMM27256	
	Waferscale	WS57C256	
CY7C277	TI	TMS27C256	
		TMS27PC256	
CY7C279	TI	TMS27C256	
		TMS27PC256	
CY7C281	AMD	AM27PS281	
		AM27S281	
		AM27S281A	
		PLE10P8	
		53S881	
		5381	
		63S881	
		6381	
	Fujitsu	MB7132	
	Harris	HA7681	
	National	DM77S181	
		DM77S181A	
		DM77S281	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Cypress Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
CY7C281	National		(Cont'd)
		DM77S281A	
		DM87S281	
	Performance	P29631	
		P29633	
	Philips	N82S181	
		N82S181A	
	TI	TMS38L85	
		TMS38S85	
CY7C282	AMD	AM27PS181	
		AM27S181	
		AM27S181A	
		PLE10P8	
		53S881	
		5381	
		63S881	
		6381	
	Fujitsu	MB7132	
	Harris	HM7681	
	Hitachi	HM25089	
	Motorola	MCM7681	
	National	DM77LS181	
		DM77S181	
		DM77S181A	
		DM87LS181	
		DM87S181	
		F93Z451	
	Performance	P29631	
		P29633	
	Philips	N82LS181	
		N82S181	
		S82LS181	
		S82S181	
	TI	TBP28S86	
		TMS28L86	
CY7C285	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
CY7C286	AMD	AM27C512	
	Fujitsu	MBM27C512	
	Hitachi	HM27512	
	Intel	27512	
	Mitsubishi	M5M272112	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC57512	
		TMM27512	
CY7C287	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
CY7C289	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
CY7C291	AMD	AM27C291	
		AM27LS291	
		AM27PS291	
		AM27S291	
		PLE11P8	
		53S1681	
		63S1681	
	Fujitsu	MB71A38	
		MB7138	
	Harris	HM76161	
	Microchip	27HC291	
	National	DM77S291	
		DM87S291	
		F93Z611	
	Performance	P29681	
		P29683	
	Philips	N82S191	
		S82S191	
	TI	TMS27C291	
		TMS38L165	
		TMS38S165	
	Waferscale	WS57C291	
CY7C291A	AMD	AM27S291	
		AM27S291A	
	Microchip	27HC291	
	Philips	N82S191	
		N82S191A	
	Waferscale	WS57C291	
CY7C292	AMD	AM27C191	
		AM27LS191	
		AM27PS191	
		AM27S191	
		53S1681	
		63S1681	
	ATMEL	AT28HC191	
	Fujitsu	MB71A38	
		MB7138	
	Harris	HM76161	
	Hitachi	HN25169	
	Microchip	27HC292	
	National	DM77S191	
		DM87S191	
		F93Z511	
		F93Z611	
	NEC	µPD429	
	Performance	P29681	
		P29683	
	Philips	N82S191	
		S82S191	
	TI	TBP28S166	
		TMS27C292	
		TMS28L166	
		TMS38L166	
	Waferscale	WS57C191	
CY7C292A	AMD	AM27S191A	
		AM27S1912	
	Fujitsu	MB71A38	
		MB7138	
	Philips	N82S191	
		N82S191A	
	Waferscale	WS57C191	
CY7C293	AMD	AM27PS291	
		AM27PS291A	
	ATMEL	AT28HC291	
CY7C341	Altera	EPM5192	
		MPM5192	
CY7C342	Altera	EPM5128	
		MPM5128	
CY7C343	Altera	EPM5064	
		MPM5064	
CY7C344	Altera	EPM5032	
		MPM5032	
CY7C401	AMD	AM67C401	
		C67L401	
		C67401	
		67C401	
		67401	
	Cypress	CY3341	
	GEC Plessey	MV66401	
	IDT	IDT72401	
	National	DM77S401	
		DM87S401	
		F54F413	
		F74F413	
CY7C402	AMD	AM67C402	
		C67402	
		67C402	
		67L402	
		67402	
		67412	
	GEC Plessey	MV66402	
	IDT	IDT72402	
	National	DM77S402	
		DM87S402	
CY7C403	AMD	AM67C403	
		C6740	
		67C4013	
		67C403	
		67401	
		67411	
	GEC Plessey	MV66403	
	IDT	IDT72403	
CY7C404	AMD	AM67C4023	
		C67402	
		67C4023	
		67402	
	GEC Plessey	MV66404	
	IDT	IDT72404	
CY7C408	Sharp	LH5481	
CY7C408A	Sharp	LH5481	
CY7C409	Sharp	LH5491	
CY7C409A	Sharp	LH5491	
CY7C420	Dallas	DS2009	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Mosel-Vitelic	7201A	
	Samsung	KM75C01	
	Sharp	LH5496	
CY7C421	Dallas	DS2009	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Mosel-Vitelic	7201A	
	Quality Semi	QS7201	
	Samsung	KM75C01	
	Sharp	LH5496	
CY7C421A	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Samsung	KM75C01A	
	Sharp	LH5496	
CY7C424	AMD	AM7202	
		AM7202A	
	Dallas	DS2010	
	IDT	IDT7202	
	Mosel-Vitelic	7202A	
	Samsung	KM75C02	
		KM75C102	
	SGS-Thomson	MK45H02	
	Sharp	LH5497	
CY7C425	AMD	AM7202	
		AM7202A	
	Dallas	DS2010	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Mosel-Vitelic	7202A	
	Quality Semi	QS7202	
	Samsung	KM75C02	
		KM75C02A	
		KM75C102	
		KM75C102A	
	Sharp	LH5497	
CY7C425A	AMD	AM7202A	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Samsung	KM75C02A	
	Sharp	LH5497	
CY7C428	AMD	AM7203	
		AM7203A	
	Dallas	DS2011	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	7203	
	Samsung	KM75C03	
	Sharp	LH5498	
	UMC	UM4503	
CY7C429	AMD	AM7203	
		AM7203A	
	Dallas	DS2011	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	7203	
	Quality Semi	QS7203	
	Samsung	KM75C03	
	Sharp	LH5498	
CY7C429A	AMD	AM7203A	
	MicronSemi	MT52C9020	
	Samsung	KM75C03A	
	Sharp	LH5498	
CY7C432	AMD	AM7204	
		AM7204A	
	IDT	IDT7204	
	Sharp	LH5499	
CY7C433	AMD	AM7204A	
	IDT	IDT7204	
		IDT72045	
	MicronSemi	MT52C4K9	
	Quality Semi	QS7204	
	Sharp	LH5499	
CY7C433A	AMD	AM7204A	
	MicronSemi	MT52C4K9	
	Sharp	LH5499	
CY7C460	AMD	AM7205A	
	IDT	IDT7205	
	MicronSemi	MT52C8K9	
CY7C462	IDT	IDT7206	
CY7C510	Harris	HMA510	
	IDT	IDT7210	
	LogicDev	LDI2010	
		LMA1010	
	Waferscale	WS59510	
♦ CY7C510	AMD	AM29L510	
		AM29510	
♦ CY7C510	AD	ADSP1010	
	IDT	IDT7210	
	Lattice	L1010	
	National	F74AC1010	
	TRWLSI	TDC1010	
		TMC2010	
♦ CY7C510	VLSI Tech	VT2010	
	Waferscale	WS59510	
CY7C516	AMD	AM29L516	
		AM29516	
	Harris	HMU16	
	IDT	IDT7216	
	LogicDev	LMU16	
		LMU216	
	TRWLSI	MPY016	
		TMC216	
	Waferscale	WS59516	
		WS59517	
CY7C517	Harris	HMU17	
	IDT	IDT7217	
	LogicDev	LMU17	
		LMU217	
♦ CY7C517		WTL2517	
	AMD	AM29L517	
		AM29517	
♦ CY7C517	IDT	IDT7217	
CY7C601	TI	TMS320C601	
CY7C602	TI	TMS320C602	
CY7C604	Fujitsu	MB86921	
	TI	TMS320C604	
CY7C67081	Samsung	KM64260	
CY7C67082	Samsung	KM64259	
CY7C901	AMD	AM29C01	
	Cypress	CY2901	
	IDT	IDM2901A	
		IDT39C01	
	Motorola	IDM2901	
	Waferscale	WS29C01	
CY7C909	Cypress	CY2909	
	IDT	IDT39C09	
CY7C910	AMD	AM29C10	
		AM29C10A	
	AD	ADSP7C901	
		7C901	
	Cypress	CY2910	
	IDT	IDT39C10	
	Waferscale	WS5910	
		WS5910A	
CY7C9101	AMD	AM29C101	
	IDT	IDT49C401	
	LogicDev	L29C101	
	Waferscale	WS59016	
CY7C911	Cypress	CY2911	
	IDT	IDT39C11	
CY7C9116	AMD	AM29C116	
		AM29L116	
		AM29116	
	TI	74ACT29116	
CY7C9116A	TI	SN74ACT29116	
CY7C9117	AMD	AM29C117	
		AM29117	
CY7MP4028	Cypress	CYM1624	
CY7MP4031	Cypress	CYM1821	
CY7M194	Cypress	CYM1220	
CY7M199	Cypress	M1400	
CY7M4003	Cypress	CYM1828	
CY7M4016	Cypress	CYM1641	
CY7S189	AMD	AM74S189	
CY7V197	Samsung	KM61257	
CY7194	SGS-Thomson	IMS1820	
CY7291	SEEQ	36C16	
CY7292	SEEQ	36C16	
♦ CY74F189C	National	74F189	
	Philips	74F1832	
		74F189A	
CY74S189	AMD	AM74S189	
	Cypress	CY27S03	
	National	DM54S189	
		DM54S189A	
		DM74S189	
		DM74S289	
		F74S189	
	Philips	N74S189	
	TI	SN54S189A	
		SN74S189	
CY74S189-35C	**Lansdale**	**SL74S189**	(367
	National	DM74S189	
		DM74S189A	
CY78C424	MicronSemi	MT52C9010	
CY8C291	SEEQ	36C16	
CY8MP624	Cypress	CYM1626	
CY91L22	AMD	AM91L22	
	Cypress	CY7C122	
		CY9122	
		CY93L422	
		CY93L422A	
CY9122	AMD	AM9122	
	Cypress	CY7C122	
		CY91L22	
		CY93L422	
		CY93422	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ypress Semiconductor (Cont'd)

anufacturer evice	Replacement Source	Device	IC Master Page
Y93L422	AMD	AM93L422	
	Cypress	CY7C122	
		CY91L22	
		CY9122	
		CY93L422	
		CY93L422A	
		CY93422	
	Motorola	MCM93L422	
	National	F93L422	
		93L422	
	Performance	P93U422	
Y93L422	Rochester	93L422	
Y93L422A	AMD	AM93L422A	
	Cypress	CY91L22	
		CY93L422	
		CY93422	
	Performance	P93U422	
Y93L422A	Rochester	93L422A	
Y93422	AMD	AM93422	
	Cypress	CY7C122	
		CY9122	
		CY93L422	
		CY93L422A	
	Motorola	MCM93422	
	National	F93422	
		93L422	
	Performance	P93U422	
Y93422A	AMD	AM93422A	
	Performance	P93U422	
Y93422A	Rochester	93422	
		93422A	
2V10	AMD	PALCE22V10	
7401A	IDT	IDT72401	
1400	Cypress	CY7M199	
LCE22V10	ATMEL	ATF22V10	
LC16L8	AMD	PALCE16V8	
		PAL16L8A	
		PAL17L8	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	PAL16L8	
	TI	PAL16L8	
		PAL16L8A	
LC16R4	AMD	PALCE16V8	
		PAL16R4	
		PAL16R4A	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	PAL16R4	
		PAL16R4A	
	TI	PAL16R4	
		PAL16R4A	
LC16R6	AMD	PALCE16V8	
		PAL16R6	
		PAL16R6A	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	PAL16R6	
		PAL16R6A	
	TI	PAL16R6	
		PAL16R6A	
LC16R8	AMD	PAL16R8	
		PAL16R8A	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	National	PAL16R8	
		PAL16R8A	
	TI	PAL16R8	
		PAL16R8A	
LC20CG10	Lattice	GAL20V8	
		GAL22V10	
LC20G10	**American Micro**	**PEEL20CG10**	**(3503)**
C22G10	ICT	PEEL20CG10	
C22V10	AMD	PALCE22V10	
		PAL22V10	
		PAL22V10A	
	ATMEL	AT22V10	
	Intel	iPLD22V10	
		PLD22V10	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
PALC22V10	Intel		(Cont'd)
		22V10	
		85C22V10	
	ICT	PEEL22CV10	
	Lattice	GAL20V8	
		GAL22V10	
	TI	TIBPAL22V10	
PAL16L8	AMD	PAL16L8	
PAL16R4	AMD	PAL16R4	
PAL16R6	AMD	PAL16R6	
PAL16R8	AMD	PAL16R8	
PAL22VP10	Intel	PLD22V10	
		85C22V10	
PAL22V10	ATMEL	AT22V10	
	Intel	PLD22V10	
		85C22V10	
	Lattice	GAL20V8	
		GAL22V10	
PLDC18G8	AMD	PALCE16V8	
	Intel	85C220	
	Lattice	GAL16V8	
		GAL18V10	
	National	GAL16V8A	
PLDC20G10	AMD	PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	Intel	85C224	
	National	PAL12L10	
		PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	TI	TIBPAL20L10A	
		TIBPAL20L8A	
		TIBPAL20R4A	
		TIBPAL20R6A	
		TIBPAL20R8A	
PLDC20RA10	Intel	PLD610	
		85C060	
	SEEQ	DM20RA10	
		DQ20RA10	
		LM20RA10	
		NQ20RA10	
		PQ20RA10	
PLD20G10	AMD	PAL14L8	
		PAL16L6	
PLD20RA10	Lattice	GAL20RA10	
PLD610	AMD	PALCE610	
	Altera	EP610	
		EP610A	
SYM1420	Mosaic Semi	MS8128	
SYM1421	Mosaic Semi	MS8128	
57401A	IDT	IDT72401	

Dallas Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
DS1210	Benchmarq	BQ2201	
	CMD Micro	CM1210	
	SGS-Thomson	MK48Z02	
DS1210S	Benchmarq	BQ2201SN	
DS1220	Ramtron	FM1408S	
DS1221	Benchmarq	BQ2204	
		BQ2204PN	
DS1221S	Benchmarq	BQ2204SN	
DS1225	Benchmarq	BQ4010	
	Ramtron	FM1608S	
	SGS-Thomson	MK48Z08	
		MK48Z18	
DS1228	TeledyneC	TC232	
	TeledyneP	TC232	
DS1230	Benchmarq	BQ4011	
	SGS-Thomson	MK48Z30	
DS1232	CMD Micro	CM1232	
	Crystal	CS1232	
	LinearTech	LTC1232	
	Maxim	MAX1232	
DS1235	Benchmarq	BQ4011	
	SGS-Thomson	MK48Z30	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
DS1243	SGS-Thomson	MK48T08	
DS1245	Benchmarq	BQ4013	
DS1285	Benchmarq	BQ3285	
	Motorola	MC146818B	
	SGS-Thomson	MK48T85	
DS1287	Benchmarq	BQ3287	
	SGS-Thomson	MK48T87	
DS1287A	Benchmarq	BQ3287A	
	SGS-Thomson	MK48T87A	
DS1387	Benchmarq		
DS2009	Cypress	CY7C420	
		CY7C421	
	Exar	XRT7201	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Mosel-Vitelic	7201A	
	SGS-Thomson	MK45H01	
		MK4501	
DS2010	Cypress	CY7C424	
		CY7C425	
	Exar	XRT7202	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Mosel-Vitelic	7202A	
	SGS-Thomson	MK45H02	
DS2011	Cypress	CY7C428	
		CY7C429	
	Exar	XRT7203	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	7203	
		7203A	
	SGS-Thomson	MK45H03	
		MK4503	
DS2012	MicronSemi	MT52C4K9	
	SGS-Thomson	MK45H04	
DS2013	MicronSemi	MT52C8K9	
DS2175	Level One	LXP2175	
DS2176	Exar	XRT5691	
	Level One	LXP2176	
DS2180	Crystal	CS2180	
	Exar	XRT5690	
	Level One	LXP2180	
DS2181	Level One	LXP2175	
DS2249	Cermetek	CH1819	
DS232	TeledyneC	TC232	
	TeledyneP	TC232	
DS6112	Cermetek	CH1816	

Datel, Inc.

Manufacturer Device	Replacement Source	Device	IC Master Page
ADCEH10	GEC Plessey	ZN503	
ADCEH8	GEC Plessey	ZN427	
ADCEK1	TeledyneC	TC8702	
ADCEK10	TeledyneC	TC8701	
ADCEK12	TeledyneC	TC8750	
ADCEK8	GEC Plessey	ZN427	
	TeledyneC	TC8700	
ADCEON	GEC Plessey	ZN427	
ADCET10	GEC Plessey	ZN501	
	TeledyneC	TC8704	
ADCET12	TeledyneC	TC8705	
ADCET8	GEC Plessey	ZN427	
ADCE10	GEC Plessey	ZN501	
ADCE8	GEC Plessey	ZN427	
ADCG8	GEC Plessey	ZN427	
ADCHT	MicroNet	ADC80	
ADCHU3	GEC Plessey	ZN501	
ADCHX	MicroNet	ADC84	
		ADC85	
		ADC87	**(3690)**
ADCHX12	Burr-Brown	ADC84	
		ADC85H	**(3473)**
	Harris	HI574	
		HI674	
ADCHZ	MicroNet	ADC84	
		ADC85	
		ADC87	**(3690)**
ADCK10	GEC Plessey	ZN501	
ADCL10	GEC Plessey	ZN501	
ADCL12B2	Harris	HI574	
		HI674	
ADCL8	GEC Plessey	ZN427	
ADCMAI13B2	Harris	HI574	
ADCMA10	GEC Plessey	ZN501	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
ADCMA12	Harris	HI574	
ADCMA12B2	Harris	HI674	
ADCMC8	GEC Plessey	ZN425	
ADCM10	GEC Plessey	ZN501	
ADCM12B2	Harris	HI674	
ADCM8	GEC Plessey	ZN427	
ADC208	GEC Plessey	SP973	
	MicroNet	**MN5902**	**(3691)**
		MN5908	**(3691)**
ADC300	GEC Plessey	SP973	
♦ ADC300	Datel	ADC208	
ADC301	GEC Plessey	SP973	
ADC302	GEC Plessey	SP973	
ADC303	GEC Plessey	SP9750	
		SP97508	
ADC304	IDT	IDT75C48	
ADC501	GEC Plessey	ZN427	
♦ ADC508	Datel	ADC505	
ADC5101	**MicroNet**	**MN5101**	**(3690)**
♦ ADC515	Datel	ADC500	
♦ ADC520	Datel	ADC505	
♦ ADC521	Datel	ADC505	
ADC5210	**MicroNet**	**MN5210**	**(3690)**
ADC5211	**MicroNet**	**MN5211**	**(3690)**
	Sipex	HS5211	
ADC5212	**MicroNet**	**MN5212**	**(3690)**
	Sipex	HS5212	
ADC5213	**MicroNet**	**MN5213**	**(3690)**
	Sipex	HS5213	
ADC5214	**MicroNet**	**MN5214**	**(3690)**
ADC5215	**MicroNet**	**MN5215**	**(3690)**
	Sipex	HS5215	
ADC5216	**MicroNet**	**MN5216**	**(3690)**
	Sipex	HS5216	
ADC574	Harris	HI574	
	Sipex	HS574	
ADC574Z	MicroNet	MN574A	
ADC5825	**MicroNet**	**MN5825**	**(3690)**
ADC674	Harris	HI674	
	Sipex	SP674	
ADC674Z	MicroNet	MN674A	
ADC7109	TeledyneC	TC7109	
	TeledyneP	TC7109	
ADC800	TeledyneC	TC800	
♦ ADC810	Datel	ADC511	
ADC815	GEC Plessey	ZN427	
ADC816	GEC Plessey	ZN501	
♦ ADC816	Datel	ADC511	
ADC825	GEC Plessey	ZN427	
	MicroNet	**MN5825**	**(3690)**
ADC826	GEC Plessey	ZN501	
♦ ADC826	Datel	ADC511	
♦ ADC827	Datel	ADC817	
ADC830	GEC Plessey	ZN439	
ADC833	GEC Plessey	ZN441	
ADC847	GEC Plessey	ZN447	
		ZN449	
ADC85	Sipex	HSADC85	
ADC856	GEC Plessey	ZN433	
ADC857	GEC Plessey	ZN449	
ADC87	Sipex	HSADC85	
ADC881	GEC Plessey	ZN447	
ADC885	MicroNet	ADC84	
		ADC85	
		ADC87	**(3690)**
♦ ADS105	Datel	ADS112	
♦ ADS106	Datel	ADS112	
♦ ADS115	Datel	ADS112	
♦ ADS116	Datel	ADS112	
♦ ADS125	Datel	ADS112	
♦ ADS126	Datel	ADS112	
ADS130	Sipex	SP9560	
AM227	Analogic	MP227	
AM450	Elantec	EHA2502	
		EHA2505	
	Harris	HA2502	
		HA2505	
AM452	Elantec	EHA2522	
		EHA2525	
	Harris	HA2522	
AM453	Philips	NE5534	
♦ AM453	Datel	AM450	
AM460	Harris	HA2602	
		HA2605	
♦ AM460	Datel	AM450	
AM462	Harris	HA2620	
		HA2625	
AM7650	Harris	ICL7650S	
	TeledyneC	TC7650	
DAC-HF8	**Harris**	**HI1171**	**(3639)**
DAC-330	**Harris**	**HI20201**	**(3639)**
DACuP8B	Philips	NE5019	
DACHA12	Sipex	DAC331	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Datel, Inc. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
DACHA14	Sipex	HS3140	
DACHF10	Raytheon	DAC10	
DACHF8	GEC Plessey	ZN426	
DACHI8	GEC Plessey	ZN426	
DACHK	MicroNet	DACHK	
DACHP16	Burr-Brown	DAC701	
		DAC703	
		DAC71	
		DAC72	
DACHY12	Burr-Brown	DAC80	
DACHZ	MicroNet	DAC80	
		DAC85	
		DAC87	**(3692)**
DACHZ12	Burr-Brown	DAC85	
		DAC85H	
		DAC87H	
DACIC8	GEC Plessey	ZN426	
	Raytheon	DAC08	
DACUP10	Philips	NE5020	
DACUP8	Philips	NE5018	
DAC08	GEC Plessey	ZN426	
	Motorola	DAC08	
♦ DAC330	Datel	DACHF10	
DAC608	GEC Plessey	ZN428	
		ZN558	
DAC71	Burr-Brown	DAC700	
		DAC703	
		DAC71	
	MicroNet	MN3290	
DAC72	Burr-Brown	DAC700	
		DAC703	
		DAC72	
	MicroNet	MN3290	
DAC7523	Unitrode	PIC7523	
DAC7533	Unitrode	PIC7533	
DAC7541	Harris	AD7541	
DAC8308	GEC Plessey	ZN454	
DAC85	Sipex	SPDAC87	
DAC87	Sipex	SPDAC87	
DD7211	Hughes	H7211	
HDAS-8	**MicroNet**	**MN7150-8**	**(3691)**
HDAS16	**MicroNet**	**MN7150-16**	**(3691)**
	Sipex	HS9403	
HDAS8	Sipex	HS9403	
HDAS8116	MicroNet	MN7150	
MN7150-16	**MicroNet**	**MN7150-16**	**(3691)**
MV808	Unitrode	PIC7503	
MXD409	Burr-Brown	HI509A	
		MPC4	
		MPC509	
MXD807	Burr-Brown	HI507A	
		MPC507	
		MPC8	
MX1606	Burr-Brown	MPC16	
		MPC506	
MX1616	Burr-Brown	MPC800	
MX808	Burr-Brown	HI508A	
		MPC508	
		MPC8	
		MPC8S	
MX818	Burr-Brown	MPC801	
SHM	Harris	HA2420	
		HA2425	
♦ SHMLM	Datel	SHMIC	
SHMLM2	**Burr-Brown**	**SHC298**	**(3471)**
SHM20	**Burr-Brown**	**SHC5320**	**(3471)**
	Harris	HA5320	
SHM360	Burr-Brown	SHC601	
SHM361	Burr-Brown	SHC601	
SHM45M	**MicroNet**	**MN376**	**(3693)**
SHM4860	**Burr-Brown**	**SHC803**	**(3471)**
		SHC804	**(3471)**
	MicroNet	**MN0300A**	**(3693)**
		MN376	**(3693)**
	Sipex	HS9720	
VFQ1	TeledyneC	TC9400	
VFQ2	TeledyneC	TC9401	
VFQ2C	Raytheon	RC4152	
VFQ3	TeledyneC	TC9402	
VFQ3C	Raytheon	RC4153	
VI7660	**Harris**	**ICL7660S**	**(3638)**
	TeledyneC	TC7660	
VR182	GEC Plessey	ZN458	

Dense-Pac

Manufacturer Device	Replacement Source	Device	IC Master Page
DPD1MM1K	TI	TMS4C1025	
DPD1MX8	Motorola	MCM81000	
	TI	TM024GAD8	
DPD1MX8	TI		(Cont'd)
		TM124EAD9B	
		TM124GU8A	
DPD1MX9	Motorola	MCM91000	
	TI	TM024EAD9	
		TM124EAD9C	
DPD4MM1K	TI	TMS44100	
DPD4MX8	TI	TM4100GBD8	
DPD4MX9	TI	TM4100EBD9	
DPE3232	IDT	IDT7M7004	
DPE51288	ATMEL	AT28MC010	
		AT28MV010	
	Mosaic Semi	ME8128	
	SEEQ	M28C010	
	Xicor	XM28C010	
DPS1024	IDT	IDT7M624	
DPS10241	IDT	IDT7MC4001	
DPS1026	EDI	EDI816H64	
	IDT	IDT7M624	
DPS1027	Cypress	CYM1621	
	IDT	IDT7M624	
	Mosaic Semi	MS1664	
DPS128M8	EDI	EDI88130	
	Mosaic Semi	MSM8128	
DPS16X17	Cypress	CYM1611	
	EDI	EDI816H16	
	IDT	IDT7MC400	
		IDT7MC4005	
DPS16X5	IDT	IDT7MP564	
DPS2516	IDT	IDT7M4016	
DPS257	IDT	IDT7M656	
DPS3232	IDT	IDT7M4003	
DPS40256	IDT	IDT8M856	
DPS41257	Cypress	CYM1400	
	IDT	IDT8M856	
DPS41288	Cypress	CYM1420	
		CYM1421	
		CYM1423	
	EDI	EDI8M8128	
	IDT	IDT8M824	
DPS45128	IDT	IDT7MP4008	
DPS45129	IDT	IDT7M4016	
DPS4648	IDT	IDT7M812	
DPS512	IDT	IDT7M4048	
DPS512S8	Cypress	CYM1464	
	EDI	EDI8M8512	
	Mosaic Semi	MS8512	
DPS5124	IDT	IDT7M4034	
DPS64S16	Cypress	CYM1622	
	IDT	IDT7MP4028	
DPS6432	Cypress	CYM1830	
	IDT	IDT7M4017	
DPS6433	Cypress	CYM1830	
	IDT	IDT7M4017	
		IDT7M4034	
DPS8M612	IDT	IDT8M612	
	MicronSemi	MT8S1632	
DPS8M624	Cypress	CYM1620	
		CYM1623	
	EDI	EDI8M1664	
	IDT	IDT8M624	
♦ DPS8M628	IDT	IDT8M628	
DPS8M656	Cypress	CYM1610	
	IDT	IDT8M656	
♦ DPS8M656	IDT	IDT8M656	
DPS8645	IDT	IDT7MP456	
DPS88H04	EDI	EDI88H04	
DPS88H16	EDI	EDH88H16	
DPS8808	IDT	IDT7M864	
DPS92256	Cypress	CY7C199	
	EDI	EDH8832	
	IDT	IDT71256	
	Mosaic Semi	MSM832	
DPS9264	Cypress	CY7C185	
	EDI	EDI8808	
	IDT	IDT7164	
DPV27C101	TI	TMS27C010A	
		TMS27PC010A	
DSP257	IDT	IDT7M656	
VM55C104K36			
	Motorola	MCM36256	
VM55C1042K3			
	Motorola	MCM36512	
V56C100	Motorola	MCM511000	
		MCM511000A	

Dionics

Manufacturer Device	Replacement Source	Device	IC Master Page
DI154	Allegro Micro	UDN6118	
DI507	Allegro Micro	UDN6116	
DI508	Allegro Micro	UDN6116	
DI509	Allegro Micro	UDN6116	
DI514	Allegro Micro	UDN6116	

ECI Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
EC1004	LinearTech	LT1004	
EC1086	LinearTech	LT1086	
EC3802	Unitrode	UC3802	
EC3842	Unitrode	UC3842	
EC385	National	LM385	
EC3852	Unitrode	UC3852	
EC3854	Unitrode	UC3854	
EC4040	National	LM4040	
EC431	TI	TL431	
EC494	TI	TL494	
F10016	Motorola	MC10H016	
OP72	AD	OP27	
1004	LinearTech	LT1004	
	TI	LT1004	
2576	National	LM2576-ADJ	
2931	National	LM2931	
2950	National	LP2950	
2951	National	LP2951	
324	National	LM324	
	TI	LM324	
339	National	LM339	
	TI	LM339	
385	National	LM385	
	TI	LM385	
3852	Unitrode	UC3852	
3854	Unitrode	UC3854	
431	Motorola	TL431	
	National	LM431	
5010	TeledyneC	MP5010	
78C120	National	DS78C120	

EG&G Reticon

Manufacturer Device	Replacement Source	Device	IC Master Page
RF56009	Exar	XR1016	
RF5651	Exar	XR1020	

Elantec

Manufacturer Device	Replacement Source	Device	IC Master Page
EHA2017	Cherry Semi	CS2017	
♦ EHA2400	Harris	HA2400	
EHA2405	Harris	HA2405	
		HA2406	
EHA2500	AD	OP01	
		OP42	
	Harris	HA2500	
	National	LM6161	
	Raytheon	RM4531	
	Sipex	SP2500	
EHA2502	AD	OP42	
	Datel	AM450	
	Harris	HA2502	
	National	LM6161	
	Sipex	SP2502	
EHA2505	Burr-Brown	3503	
	Datel	AM450	
	Harris	HA2505	
	National	LM6361	
	Raytheon	RC4531	
	Sipex	SP2505	
EHA2510	AD	OP42	
	Harris	HA2510	
	LinearTech	LT118	
	National	LM6161	
	Sipex	SP2510	
EHA2512	AD	OP42	
	Harris	HA2512	
	National	LM6161	
	Sipex	SP2512	
EHA2515	AD	AD518	
		OP42	
	Harris	HA2515	
	LinearTech	LT318	
	National	LM6361	
	Philips	NE531	
		SE531	
	Sipex	EHA2515	
		SP2515	
EHA2520	AD	AD509	
		OP42	
		OP44	
	Harris	HA2520	
	National	LH0003	
		LM6164	
EHA2520			(Cont'd)
	Philips	NE538	
		SE538	
	Sipex	SP2520	
	TeledyneC	1322	
EHA2522	AD	OP42	
		OP44	
	Datel	AM452	
	Harris	HA2522	
	National	LM6164	
	Sipex	SP2522	
EHA2525	AD	AD509	
		OP42	
		OP44	
	Burr-Brown	3507	
	Datel	AM452	
	Harris	HA2525	
	National	LM6364	
	Sipex	SP2525	
	TeledyneC	1322	
EHA2539	Harris	HA2539	
		HA2839	
		HA2840	
EHA2540	Harris	HA2540	
EHA2600	Harris	HA2600	
	National	LM6161	
	Sipex	SP2600	
♦ EHA2600	Allegro Micro	ULN2139	
		ULN2151	
		ULN2156	
		ULN2171	
		ULN2173	
		ULN2175	
		ULN2176	
♦ EHA2600	Burr-Brown	OPA11	
		3500	
♦ EHA2600	Harris	HA2600	
	Motorola	MC1456	
		MC1556	
♦ EHA2600	Raytheon	RM4131	
	Sipex	SP2600	
	TeledyneC	1326	
	TI	MC1556	
EHA2602	Harris	HA2602	
	National	LM6161	
	Sipex	SP2602	
♦ EHA2602	Datel	AM460	
	Harris	HA2602	
	Sipex	SP2602	
EHA2605	Harris	HA2605	
	National	LM6361	
	Sipex	SP2605	
♦ EHA2605	Burr-Brown	3506	
	Datel	AM460	
	Harris	HA2605	
	Raytheon	RC4131	
	Sipex	SP2605	
	TI	MC1456	
EHA2610	Sipex	SP2610	
EHA2612	Sipex	SP2612	
EHA2615	Sipex	SP2615	
EHA2620	Harris	HA2620	
	National	LM6164	
	Sipex	SP2620	
♦ EHA2620	Allegro Micro	ULN2174	
	AD	AD507	
	Datel	AM462	
	Harris	CA3100	
		HA2620	
♦ EHA2620	Sipex	SP2620	
	TeledyneC	1321	
EHA2622	Harris	HA2622	
	National	LM6164	
	Sipex	SP2622	
♦ EHA2622	Harris	HA2622	
	Sipex	SP2622	
EHA2625	Harris	HA2625	
	National	LM6364	
	Sipex	SP2625	
♦ EHA2625	AD	AD507	
	Burr-Brown	3508	
	Datel	AM462	
	Harris	HA2625	
	Sipex	SP2625	
	TeledyneC	1321	
		1339	
EHA5190	Harris	HA5190	
EHA5195	Harris	HA5195	
EHOS100	AD	HOS100	
EHOS200	AD	HOS200	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Elantec (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ELH0002	LinearTech	LT1010	
	National	LH0002	
ELH0021	National	LH0021	
ELH0032	Harris	HA2542	
	National	LH0032	
ELH0032	AD	ADLH0032	
	National	LH0032	
	TeledyneP	TP0032	
ELH0033	AD	ADLH0033	
	Burr-Brown	**OPA633**	**(3459)**
	Maxim	LH0033	
	National	LH0033	
	TeledyneC	1359	
	TeledyneP	TP0033	
ELH0041	National	LH0041	
ELH0101	**Apex**	**PA02**	**(3545)**
	Maxim	LH0101	
	National	LH0101	
		LM1514	
EL2001	LinearTech	LT1010	
	National	LH0002	
		LH4001	
		LM6121	
		LM6321	
EL2001	VTC	VA003	
		VA033	
EL2002	**Burr-Brown**	**OPA633**	**(3459)**
	Comlinear	CLC110	
	Harris	HA5002	
		HA5033	
EL2002	LinearTech	LT1010	
	National	LH0002	
		LH4002	
EL2002	VTC	VA003	
		VA0033	
EL2003	**Burr-Brown**	**OPA633**	**(3459)**
	Harris	HA5002	
EL2003	Harris	HA5002	
	LinearTech	LT1010	
	National	LH0002	
		LH4002	
EL2004	AD	ADLH0033	
		HOS100	
	Burr-Brown	**OPA633**	**(3459)**
	Harris	HA5033	
	National	LH0033	
EL2005	Harris	HA5033	
	Maxim	MAX460	
	National	LH0033	
EL2006	AD	ADLH0032	
		AD380	
		AD381	
		AD382	
		HOS050	
		HOS060	
	Comlinear	CTS0032	
	National	LH0032	
		LM6161	
		LM6261	
L2008	LinearTech	LT1010	
	National	LM6125	
L2009	LinearTech	LT1010	
	National	LM6125	
L2012	LinearTech	LT1010	
	National	LM6125	
L2018	AD	AD790	
		AD9686	
		CMP05	
L2018	Elantec	EL2018	
	LinearTech	LT1016	
	National	LM160	
		LM161	
		LM360	
		LM361	
L2018	Philips	NE5105	
		NE527	
		SE5105	
		SE527	
L2018	Raytheon	RC4805	
L2019	AD	CMP05	
L2020	Harris	HA5004	
		HA5020	
	LinearTech	LT1223	
L2020	**AD**	**AD844**	**(3526, 3512, 3529)**
		AD846	**(3526, 3512, 3529)**
		OP61	
L2020	Harris	HA2540	
		HA2541	
		HA2542	
			(Continued)
♦ EL2020	**Harris**		(Cont'd)
		HA2544	**(3637)**
		HA5020	
		HA5190	
		HA5195	
♦ EL2020	Maxim	MAX450	
		MAX451	
		MAX452	
♦ EL2020	National	LM6161	
		LM6361	
♦ EL2020	Sipex	SP2542	
	TeledyneC	1321	
		1322	
♦ EL2020	VTC	VA707	
		VA708	
EL2028	LinearTech	LT1220	
♦ EL2028	National	LM6164	
		LM6364	
EL2029	LinearTech	LT1221	
♦ EL2029	AD	OP64	
	National	LM6164	
		LM6364	
EL2030	Harris	HA5020	
	LinearTech	LT1223	
♦ EL2030	AD	AD811	
		AD844	**(3526, 3512, 3529)**
		AD846	**(3526, 3512, 3529)**
		OP160	
		OP61	
♦ EL2030	**Burr-Brown**	**OPA620**	**(3460)**
	Comlinear	CLC401	
	Elantec	VA708	
	Harris	HA2540	
		HA2541	
		HA2542	
		HA2544	**(3637)**
♦ EL2030	Maxim	MAX450	
		MAX451	
		MAX452	
♦ EL2030	National	LM6161	
		LM6361	
♦ EL2030	Sipex	SP2542	
	TeledyneC	1321	
		1322	
♦ EL2030	VTC	VA707	
EL2031	National	LH0033	
EL2033	**Burr-Brown**	**BUF600**	**(3459)**
	Harris	HA5002	
♦ EL2033	**Burr-Brown**	**OPA633**	**(3459)**
	Harris	HA5002	
		HA5033	
♦ EL2033	VTC	VA003	
		VA033	
EL2038	LinearTech	LT1222	
♦ EL2038	**AD**	**AD5539**	**(3529)**
		AD849	**(3529)**
♦ EL2038	Harris	HFA0002	
	National	LM6165	
		LM6365	
♦ EL2038	Philips	NE5539	
		SE5539	
EL2039	Harris	HA2539	
		HA2839	
	LinearTech	LT1222	
♦ EL2039	**AD**	**AD5539**	**(3529)**
		AD839	
♦ EL2039	Harris	HA2539	
		HA2839	
♦ EL2039	Philips	NE5539	
		SE5539	
EL2040	Harris	HA2540	
		HA2840	
	LinearTech	LT1222	
♦ EL2040	**AD**	**AD840**	**(3512, 3529)**
	Harris	HA2540	
		HA2840	
EL2041	Burr-Brown	OPA660	
	Harris	HA2541	
		HA2841	**(3637)**
	LinearTech	LT1220	
♦ EL2041	**AD**	**AD841**	**(3530)**
		AD842	**(3512, 3530)**
		AD847	**(3530)**
		OP42	
		OP44	
		OP64	
♦ EL2041	Elantec	VA707	
	Harris	HA2541	
		HA2841	**(3637)**
			(Continued)
♦ EL2041	National	LH0024	
	Philips	NE530	
		SE530	
♦ EL2041	Sipex	SP2541	
	VTC	VA705	
		VA706	
EL2044	**Harris**	**HA2841**	**(3637)**
♦ EL2044	LinearTech	LT1190	
		LT1191	
EL2045	National	LM6364	
♦ EL2070	**Burr-Brown**	**OPA603**	**(3459)**
	Comlinear	CLC410	
	Harris	HFA0001	
EL2071	Comlinear	CLC401	
EL2072	**Burr-Brown**	**BUF601**	**(3459)**
	Harris	**HFA1110**	**(3637)**
♦ EL2072	Comlinear	CLC110	
	Siliconix	SI581	
♦ EL2073	**Burr-Brown**	**OPA620**	**(3460)**
	Comlinear	CLC420	
♦ EL2074	Elantec	OPA621	
♦ EL2075	**Burr-Brown**	**OPA621**	**(3460)**
EL2082	Comlinear	CLC520	
	Philips	NE5209	
EL2120	Harris	HA5020	
	LinearTech	LT1223	
♦ EL2120	Comlinear	CLC430	
	Harris	HA5020	
	LinearTech	LT1223	
EL2130	Harris	HFA1100	
	LinearTech	LT1223	
EL2171	Comlinear	CLC401	
	Harris	HFA1100	
EL2190	AD	OP64	
	Harris	HA5190	
♦ EL2190	Harris	HA5190	
EL2195	AD	OP64	
	Harris	HA5195	
♦ EL2223	AD	OP61	
	Harris	HA5112	
	VTC	VA2707	
		VA2708	
♦ EL2224	AD	OP271	
	Harris	HA5102	
	Philips	NE5532	
		SE5532	
♦ EL2224	VTC	VA2706	
EL2232	Harris	HA5023	
		HFA1205	
	LinearTech	LT1229	
♦ EL2232	**AD**	**OP260**	**(3512, 3530)**
	LinearTech	LT1229	
♦ EL2242	AD	OP220	
	LinearTech	LT1078	
	Motorola	MC33072	
	National	LM158	
		LM358	
EL2244	**AD**	**AD827**	**(3530)**
	LinearTech	LT1229	
	Maxim	MAX428	
♦ EL2252	AD	PM119	
		PM219	
♦ EL2252	LinearTech	LT1016	
		LT685	
♦ EL2252	Maxim	MAX9698	
	Motorola	MC1514	
	National	LM160	
		LM161	
		LM193	
		LM360	
		LM361	
		LM393	
♦ EL2252	Philips	NE521	
		SE521	
EL2260	Harris	HA5023	
		HFA1205	
♦ EL2423	Harris	HA5114	
	VTC	VA4707	
		VA4708	
EL2430	LinearTech	LT1230	
EL2460	**Harris**	**HA5025**	**(3637)**
		HFA1405	
EL400	**Harris**	**HFA1120**	**(3637)**
♦ EL400	AD	AD9617	
		OP166	
♦ EL400	**Burr-Brown**	**OPA603**	**(3459)**
		OPA620	**(3460)**
		OPA621	**(3460)**
♦ EL400	Comlinear	CLC400	
		CLC404	
♦ EL400	Harris	HFA0001	
		HFA0005	
			(Continued)
♦ EL400	Siliconix	SI582	
EN2015	Harris	CA3084	
♦ EN2016	Allegro Micro	TPQ3904	
	Harris	CA3045	
		CA3046	**(3637)**
♦ EN2016	Motorola	MPQ3904	
♦ EP2015	Allegro Micro	TPQ3906	
	Motorola	MPQ3906	

Electronic Designs Inc. (EDI)

Manufacturer Device	Replacement Source	Device	IC Master Page
EDH81H256	IDT	IDT7MC156	
		IDT7MP156	
EDH816H16	Cypress	CYM1611	
	IDT	IDT7MC4005	
EDH816H64	Cypress	CYM1621	
EDH84H64	IDT	IDT7MP456	
EDH88H16	Dense-Pac	DPS88H16	
EDH8808	Harris	HM65642	
	IDT	IDT7M864	
		IDT8M864	
EDH8832	Dense-Pac	DPS92256	
	IDT	IDT7M856	
		IDT71256	
		IDT8M856	
EDI411024C100QB	TI	SMJ4C1024-10	
EDI411024C120QB	TI	SMJ4C1024-12	
EDI411024C150QB	TI	SMJ4C1024-15	
EDI414096C100QB	TI	SMJ44100-10	
EDI414096C120QB	TI	SMJ44100-12	
EDI414096C80QB	TI	SMJ44100-80	
EDI44256C100QB	TI	SMJ44C256-10	
EDI44256C120QB	TI	SMJ44C256-12	
EDI44256C150QB	TI	SMJ44C256-15	
EDI8F1664	IDT	IDT8M624	
EDI8F321Z8	MicronSemi	MT4S12832	
EDI8F3264	IDT	IDT7MP4036	
EDI8F3265	MicronSemi	MT8S6432	
EDI8F8257	IDT	IDT7MP4034	
EDI8F8258	IDT	IDT7MP4034	
EDI8M16256	IDT	IDT7M4016	
EDI8M16257	IDT	IDT7MB4066	
EDI8M1664	Dense-Pac	DPS8M624	
	IDT	IDT7M624	
		IDT8M624	
EDI8M32256	IDT	IDT7MP4045	
		IDT7M4067	
EDI8M3264	IDT	IDT7M4017	
EDI8M4257	IDT	IDT7M4042	
EDI8M8128	Dense-Pac	DPS41288	
	IDT	IDT8MP824	
		IDT8M824	
EDI8M8130	IDT	IDT8M824	
EDI8M8257	IDT	IDT7M4068	
EDI8M8512	Dense-Pac	DPS512S8	
	IDT	IDT7M4048	
EDI8M864	IDT	IDT7M812	
EDI81256	Paradigm	PDM41257	
EDI816H16	Dense-Pac	DPS16X17	
EDI816H64	Dense-Pac	DPS1026	
EDI8164	IDT	IDT7187	
	LogicDev	L7C187	
EDI8416	IDT	IDT7188	
	LogicDev	L7C164	
EDI8417	IDT	IDT6198	
EDI84256	Sharp	LH521002	
EDI8464	LogicDev	L7C194	
EDI8465	IDT	IDT71B258	
	Paradigm	PDM41258	
	Sharp	LH52252	
EDI8466	Sharp	LH52253	
EDI88H04	Dense-Pac	DPS88H04	
EDI8802	LogicDev	L6116	
EDI8808	Dense-Pac	DPS9264	
	IDT	IDT7164	
EDI88128	Sharp	LH521007	
		LH521008	
EDI88130	Dense-Pac	DPS128M8	
	Sharp	LH521007	
		LH521008	
EDI8832	IDT	IDT71256	
	Sharp	LH52250AL	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Electronic Designs Inc. (EDI) (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
EDI8833	IDT	IDT71256	
	LogicDev	L7C199	
	Paradigm	PDM41256	
EDI8834	Sharp	LH52258	
EDI8908	IDT	IDT7169	
ED8F32256	Cypress	CYM1841	
ED8F3264	Cypress	CYM1831	
ED8F8512	Cypress	CYM1465	
ED8M16256	Cypress	CYM1641	
ED8M32256	Cypress	CYM1840	
ED8M3264	Cypress	CYM1830	
ED8M8128	Cypress	CYM1420	
		CYM1421	
ED8M8512	Cypress	CYM1464	
		CYM1466	
ED816H16	Cypress	CYM1611	
ED8464	Cypress	CYM7C194	
MT8812	Harris	CD22M3493	

Ericsson

Manufacturer Device	Replacement Source	Device	IC Master Page
PBD3517	Allegro Micro	UCN5804	
	Unitrode	UC3517	
PBD352301	Allegro Micro	ULN2001	
PBD352302	Allegro Micro	ULN2004	
PBD352303	Allegro Micro	ULN2003	
PBD352312	Allegro Micro	ULN2024	
PBD352313	Allegro Micro	ULN2023	
PBD353801	Allegro Micro	ULN2801	
PBD353802	Allegro Micro	ULN2804	
PBD353803	Allegro Micro	ULN2803	
PBL3712	SGS-Thomson	TEA3717	
	Unitrode	UC3717	
PBL3717	Allegro Micro	UDN2953	
	Unitrode	UC3717	
PBL3717A	Cherry Semi	CS3717	
PBL3736	GEC Plessey	SL7950	
		SL7953	
PBL3770	Allegro Micro	UDN2953	
	Cherry Semi	CS3770	
	Unitrode	PBL3770	
		UC3770	
PCD3315	Samsung	KS5822	
		KS58500	
RL3525	Unitrode	UC3525	

Exar

Manufacturer Device	Replacement Source	Device	IC Master Page
REF01	Raytheon	REF01	
REF02	Raytheon	REF-02	
RPT86	**AD**	**RPT86**	**(3514)**
XP1042	GEC Plessey	TAB1042	
XRC240	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRC262	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRC277	AD	RPT82	
		RPT83	
XRC445	AD	RPT85	
XRC587	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRC588	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRL555	Harris	ICM7555	
	Holt	HI7555	
XRL556	Harris	ICM7556	
XRL567	Philips	NE567	
XRT56L22	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRT5600	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRT5620	**AD**	**RPT87**	**(3514)**
XRT5650	AD	LIU01	
XRT5681	AD	LIU01	
XRT5683	AD	LIU01	
XRT5690	Dallas	DS2180	
XRT5691	Dallas	DS2176	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
XRT5700	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRT5720	**AD**	**RPT86**	**(3514)**
		RPT87	**(3514)**
XRT65118	Maxim	MC34118	
	Motorola	MC34118	
XRT65119	Maxim	MC34119	
	Motorola	MC34119	
XRT7201	Dallas	DS2009	
	IDT	IDT7201	
XRT7202	Dallas	DS2010	
	IDT	IDT7202	
XRT7203	Dallas	DS2011	
	IDT	IDT7203	
XR062	TI	TL062	
XR082	AD	OP215	
	Motorola	MC10319	
XR084	Motorola	TL084	
	National	LF147	
		LF347	
XR1001	National	MF4C	
XR1002	National	MF4C	
XR1003	National	MF4C	
XR1004	National	MF4C	
XR1005	National	MF4C	
XR1006	National	MF4C	
XR1007	National	MF4C	
XR1008	National	MF4C1008	
XR1010	Harris	HF10	
	LinearTech	LTC1060	
	Maxim	MF10	
	National	MF10	
XR1015	LinearTech	LTC1060	
		LTC1062	
XR1016	American Micro	S3528	
	EG&G-Reticon	RF56009	
XR1020	American Micro	S3541	
	EG&G-Reticon	RF5651	
XR117	Harris	HA5002	
	MicroLinear	ML117	
	SiliconSys	SSI32R117	
XR117-2C	MicroLinear	ML117-2C	
XR117-4C	MicroLinear	ML117-4C	
XR117-6C	MicroLinear	ML117-6C	
XR117R-2C	MicroLinear	ML117R-2C	
XR117R-4C	MicroLinear	ML117R-4C	
XR117R-6C	MicroLinear	ML117R-6C	
XR13600	Harris	CA3280	
	National	LM13600	
	Philips	NE5517	
XR14412	Motorola	MC14412	
XR1458	AD	OP14	
	National	LM1458	
XR146	National	LM146	
XR1524	Harris	CA1524	
	Linfinity Micro	SG1524	
	National	LM1524	
	Unitrode	UC1524	
XR1525	Unitrode	UC1525	
XR1543	Unitrode	UC1543	
XR16C450	Harris	CP82C50	
	National	NS16C450	
	Startech	ST16C450	
XR16C452	Startech	ST16C452	
XR16C552	Startech	ST16C552	
XR2001	Allegro Micro	ULN2001	
XR2003	Allegro Micro	ULN2003	
		ULQ2003	
XR2004	Allegro Micro	ULN2004	
		ULQ2004	
XR2007	Raytheon	XR2207	
XR2013	Allegro Micro	ULN2013	
XR2201	Allegro Micro	ULN2001	
XR2203	Allegro Micro	ULN2003	
XR2204	Allegro Micro	ULN2004	
XR2207	Raytheon	RM2207	
		XR2207	
XR2211	Raytheon	RM2211	
		XR2211	
XR2240	Harris	ICM7240	
		ICM8240	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
XR2240			(Cont'd)
	Maxim	ICM7240	
	National	μA2240	
	TI	μA2240	
XR2242	Harris	ICM7242	
	Maxim	ICM7242	
XR2524	Harris	CA2524	
	Philips	SG3524	
	Unitrode	UC2524	
XR2525	Unitrode	UC2525	
XR2527	Unitrode	UC2527	
XR2543	Unitrode	UC2543	
XR3403	AD	OP421	
	Harris	CA5470	
XR34072	Maxim	MC34072	
	Motorola	MC34072	
XR34074	Maxim	MC34074	
	Motorola	MC34074	
XR346	National	LM346	
XR3470	Motorola	MC3470	
XR3524	Harris	CA3524	
	Linfinity Micro	SG3524	
	National	LM3524	
	Philips	SG3524	
	Unitrode	UC3524	
XR3525	Unitrode	UC3525	
XR3527	Unitrode	UC3527	
XR3543	Unitrode	UC3543	
XR4136	AD	OP09	
	Raytheon	RC4136	
	TI	RC4136	
XR4151	Raytheon	RC4151	
		RC4152	
XR4194	Raytheon	RC4194	
XR4195	Raytheon	RC4195	
XR4202	AD	OP421	
XR4212	AD	OP421	
XR4558	AD	OP14	
	Philips	NE4558	
XR4560	AD	OP271	
XR4739	AD	OP270	
	Harris	HA5102	
XR4741	AD	OP11	
	Harris	HA4741	
XR501	Hitachi	HA166008	
	SiliconSys	SSI32R501	
XR505-2	Hitachi	HA166024	
XR505-4	Hitachi	HA166025	
XR505R-2	Hitachi	HA166044	
XR505R-4	Hitachi	HA166045	
XR511	Hitachi	HA166008	
	SiliconSys	**SSI32R511**	**(3778)**
XR532	SiliconSys	SSID5321	
XR541	SiliconSys	SSI32P541	
XR5532	AD	OP270	
		SSM2139	**(3529)**
	Harris	HA5102	
	Philips	NE5532	
	Raytheon	RC5532	
	TI	NE5532	
XR5532A	Raytheon	RC5532A	
XR5533	AD	OP215	
		OP270	
		SSM2139	**(3529)**
	Philips	NE5533	
XR5534	AD	OP37	
		SSM2134	**(3529)**
	Harris	HA5101	
	Philips	NE5534	
		SE5534	
	Raytheon	RC5534	
	TI	NE5534	
XR5534A	Raytheon	RC5534A	
XR555	Philips	NE555	
XR558	Philips	NE558	
XR567	National	LM567	
	Philips	NE567	
XR6118	Allegro Micro	UDN6118	
	Motorola	MC3590	
	National	DM8887	
	Philips	NE594	
XR68C681	Maxim	MC68681	
	Motorola	MC68681	
	Philips	SCC68692	
		SCN68681	
XR8038	Harris	ICL8038	
		ICM8038	
XR8464	Krueger	8464	
XR88C681	Maxim	MC2681	
	Motorola	MC2681	
	Philips	SCC2692	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Maste Pag
XR88C681	Philips		(Cont'd
		SCN2681	
		SCN2692	
		SCN68681	
XR88C684	**Philips**	**SC68C94**	**(3725**

EXEL Microelectronics

Manufacturer Device	Replacement Source	Device	IC Maste Pag
XLS2864	NEC	μPD28C64	
XL28C16	ATMEL	AT28C16	
	Catalyst Semi	CAT28C16	
	Microchip	28C16	
	OKI	MSM28C16	
	ROHM	BR28C16	
	Samsung	KM28C16	
	SEEQ	DE52B13	
		DM52B13	
		DQ52B13	
		PQ52B13	
	Xicor	X28C16	
XL28C64	ATMEL	AT28PC64	
	Catalyst Semi	CAT28C64	
	Fujitsu	MBM28C64	
	Microchip	28C64	
	NEC	μPD28C64	
	Samsung	KM28C64	
	SEEQ	DE28C64	
		DM28C64	
		DQ28C64	
		NQ28C64	
		PQ28C64	
	Xicor	X28C64	
XL2804	ATMEL	AT28C04	
	Hughes	HC3104	
	Microchip	PC28C04	
	ROHM	BR2804	
	SEEQ	PQ2804	
	Xicor	X2804	
XL2816	Catalyst Semi	CAT28C16	
	Hughes	HB3248	
		HC3248	
		HI3248	
	Microchip	28C04	
	ROHM	BR2816	
	Samsung	KM28C16	
		KM2816	
	SEEQ	DE2816	
		DQ2816	
		PQ2816	
	Xicor	X2816	
XL2817	Samsung	KM28C17	
XL2864	AMD	AM2864	
	ATMEL	AT28PC64	
	Catalyst Semi	CAT28C64	
	Hitachi	HN58064	
	ROHM	BR2864	
	Samsung	KM28C64	
		KM2864	
	SEEQ	DE52B33	
		DQ52B33	
		PQ52B33	
	Xicor	X2864	
XL2864A	Fujitsu	MBM28C64	
XL2865	AMD	AM2864	
	ATMEL	AT28C64	
	Hitachi	HN58C65	
	ROHM	BR2865	
	Samsung	KM28C65	
		KM2865	
	SEEQ	DE2864	
		DM2864	
		DQ2864	
		NQ2864	
		PQ2864	
XL2865A	Fujitsu	MBM28C65	
XL46C15	ROHM	BR46C15	
XL90C21	Mitsubishi	M6M80021	
	ROHM	BR9021	
XL90C41	Mitsubishi	M6M80041	
XL93CS46	National	NMC93CS46	
	ROHM	BR93CS46	
XL93C06	Samsung	KM93C06	
XL93C46	**Catalyst Semi**	**CAT93C46**	**(356**
	Hyundai	HY93C46	
	ICT	93CX46	
		93C46	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

XEL Microelectronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
L93C46			(Cont'd)
	Microchip	ER5911	
		59C11	
		93C46	
	National	NMC93C46	
		NMC9341	
		NMC9346	
	OKI	MSM16811	
	ROHM	BR93C46	
	Samsung	KM93C46	
L93C56	ICT	93CX56	
		93C56	
	National	NMC93C56	
	ROHM	BR93C56	
L93C66	**Catalyst Semi**	**CAT35C104**	**(3565)**
		CAT35C204	
	ICT	93C66	
	National	NMC93C66	
L93LC06	Microchip	93C06	
		93C46	
	National	NMC93C06	
		NMC9306	
93LC46	Catalyst Semi	CAT59C11	
		CAT93C46	**(3565)**
	Hyundai	HY93C46	
	ICT	93CX46	
		93C46	
	Microchip	ER5911	
		59C11	
		93C46	
	National	NMC93C46	
		NMC9314	
	OKI	MSM16811	
	ROHM	BR93C46	
	Samsung	KM93C46	
93LC56	**Catalyst Semi**	**CAT35C102**	**(3565)**
	ICT	93CX56	
		93C56	
	National	NMC93C56	
93LC66	**Catalyst Semi**	**CAT35C104**	**(3565)**
		CAT35C204	
	ICT	93CX66	
		93C66	
	National	NMC93C66	
04	SEEQ	2804	
04A	Ramtron	FM1208S	
16	SEEQ	2816	
64	SEEQ	2864	
65	SEEQ	28C65	
C16	Waferscale	WS57C291	

jitsu

Manufacturer Device	Replacement Source	Device	IC Master Page
M81C67	SGS-Thomson	IMS1403	
M100	GEC Plessey	SP8610	
		SP8611	
		SP8712	
		SP8804	
		SP8814	
		SP8824	
		SP8835	
M84100	Hyundai	HY628100	
H28C64	Samsung	KM28C64	
H38	Waferscale	WS57C191	
		WS57C291	
L80C31	Intel	P80C31	
	Siemens	SAB80C31	
L80C51	Intel	P80C51	
	Siemens	SAB80C51	
L80186	AMD	A80186	
		R80186	
L80188	AMD	R80188	
L80286	AMD	R80286-8	
	Krueger	80286	
	Siemens	SAB80286	
L8031	Intel	P8031	
	Krueger	8031	
	Siemens	SAB8031	
L8039	Krueger	8039	
L8051	Intel	P8051	
	Siemens	SAB8051	
L8051A	Siemens	SAB8051A	
L8086	Krueger	8086	
	OKI	MSM80C86A	
L8088	Krueger	8088	
	OKI	MSM80C88A	
MBL82284	Intel	SAB82284	
	Siemens	SAB82284	
MBL82288	Siemens	SAB82288	
MBL8259A	Krueger	8259	
	OKI	MSM82C59A	
	Siemens	SAB8259A	
MBL8284A	OKI	MSM82C84A	
	Siemens	SAB8284	
MBL8288	OKI	MSM82C88	
	Siemens	SAB8288A	
MBL8392	National	DP8392	
	Philips	NE8392	
MBM10A484	IDT	IDT10A484	
MBM10C494	Cypress	CY10E494	
	IDT	IDT10494	
MBM100C490	IDT	IDT100490	
MBM100C494	Cypress	CY100E494	
	IDT	IDT100494	
MBM100C504	IDT	IDT100504	
MBM100422	Cypress	CY100E422	
	Synergy	SY100L422	
MBM100470	Cypress	CY100E470	
MBM100474	Cypress	CY100E474	
	NEC	μPB100474	
	Synergy	SY100L474	
		SY100474	
MBM100480	NEC	μPB100480	
	Synergy	SY100480	
MBM100484	Cypress	CY100E484	
	IDT	IDT100484	
	NEC	μPB100484	
	Synergy	SY100L484	
MBM100486	IDT	IDT100496	
MBM100490	IDT	IDT100490	
MBM101A484	Cypress	CY101E484	
	IDT	IDT101A484	
MBM101C500	Silicon Conn	SC5100	
MBM101C504	Silicon Conn	SC5104	
MBM101474	Synergy	SY101474	
MBM101484	Synergy	SY101484	
MBM101494	Cypress	CY101E484	
		CY101E494	
	IDT	IDT101494	
MBM10422	Cypress	CY10E422	
	Synergy	SY10E422	
		SY100422	
		SY10422	
MBM10470	Cypress	CY10E470	
MBM10474	Cypress	CY10E474	
	NEC	μPB10474	
	Synergy	SY10L474	
		SY10474	
MBM10480	Synergy	SY10480	
MBM10484	Cypress	CY10E484	
	IDT	IDT10A484	
		IDT10484	
	NEC	μPB10484	
	Synergy	SY10L484	
		SY10484	
MBM10486	IDT	IDT10496	
MBM10490	IDT	IDT10490	
MBM10494	Cypress	CY10E494	
	IDT	IDT10494	
MBM2147	AMD	AM2147	
	Cypress	CY2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
MBM2148	AMD	AM21L48	
	Cypress	CY21L48	
MBM2149	AMD	AM21L49	
		AM2149	
	Cypress	CY21L49	
		CY2149	
MBM27C1000	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC571001	
MBM27C1001	Krueger	27C010	
	OKI	MSM271000	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC571000	
MBM27C1024	Krueger	27C210	
	OKI	MSM27C1024	
		MSM271024	
	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC57H1024	
		TC571024	
MBM27C128	Krueger	27C128-200	
		27C128-250	
	TI	TMS27C128	
		TMS27PC128	
MBM27C256	AMD	AM27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	OKI	MSM27C256	
	SEEQ	27C256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
	Waferscale	WS27C256	
MBM27C256A	Toshiba	TC57256	
MBM27C4000	Toshiba	TC574000	
MBM27C4001	Toshiba	TC574000	
MBM27C4096	Toshiba	TC574096	
		TC574200	
MBM27C512	Cypress	CY7C286	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC27512	
		TC54512	
		TC57512	
	Waferscale	WS27C512	
MBM27C64	Cypress	CY7C266	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
MBM27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	OKI	MSM27128	
	SEEQ	27128	
	TI	TMS27C128	
		TMS27PC128	
MBM27256	Cypress	CY7C274	
	Krueger	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	OKI	MSM27256	
	TI	TMS27C256	
		TMS27PC256	
MBM27512	OKI	MSM27512	
MBM2764	Cypress	CY7C266	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	OKI	MSM2764	
	SEEQ	2764	
MBM28C256	Samsung	KM28C256	
MBM28C64	AMD	AM2864B	
	ATMEL	AT28C64	
		AT28PC64	
	EXEL	XL28C64	
		XL2864A	
	Hitachi	HN58064	
	NEC	μPD28C64	
	OKI	MSM28C64	
	Samsung	KM28C64	
	SEEQ	28C64	
		2864	
	Xicor	X2864A	
MBM28C65	EXEL	XL2865A	
	Hitachi	HN58C65	
	Samsung	KM28C65	
	SEEQ	28C65	
MBM81C68	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
MBM8147	**Krueger**	**2147-35**	**(3663)**
		2147-45	**(3663)**
MBM8147	**Krueger**		**(Cont'd)**
		2147-55	**(3663)**
		2147-70	**(3663)**
MBM8167	Cypress	CY7C167	
MBM8168	Cypress	CY7C168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
MBM8414	AMD	AM91L14	
MB1502	GEC Plessey	SP8853	
		SP8861	
MB2147	Performance	P4C147	
MB2149	Performance	P4C149	
◆ MB3607	AD	OP14	
		OP215	
		OP270	
◆ MB3607	Harris	CA1458	
		HA102	
		HA1458	
◆ MB3607	MicroPwr	MPOP14	
	Motorola	MC1458	
	National	μA1458	
		LF412	
◆ MB3607	NEC	μPC1458	
		μPC251	
◆ MB3607	Philips	NE5512	
	Raytheon	RC2041	
	Samsung	MC1458	
	TI	LF412	
	Toshiba	TA75458	
MB3609	Unitrode	PIC7504	
◆ MB3609	National	LM741	
◆ MB3614	National	LM324	
◆ MB3615	AD	OP421	
	Motorola	MC3303	
	National	μA303	
	Philips	MC3303	
	TI	MC3303	
MB3752	Harris	CA723	
		LM723	
	Hitachi	HA17723	
	Linfinity Micro	SG723	
	Motorola	MC1723	
	National	μA723	
		LM723	
	Philips	μA723	
	Raytheon	RC723	
		RM723	
	TI	μA723	
MB3759	Motorola	TL494	
	TI	TL494	
	Unitrode	UC494	
		UC494A	
MB3760	Cherry Semi	CS595	
MB3769	Unitrode	UC384	
MB38200	OKI	MSM538002B	
◆ MB4001	National	μA710	
◆ MB4002	National	μA710	
MB4053	TI	TL507	
◆ MB4053	Motorola	MC14443	
	National	μA9708	
MB40576	**Sony**	**CXD1172**	**(3794)**
	TI	TL5501	
	Toshiba	TD6712	
MB40578	TI	TLC5502	
		TL5502	
◆ MB4063	Motorola	MC14443	
	National	μA9708	
MB40748	AD	DAC08	
MB40776	TI	TL5601	
MB40778	TI	TLC5602	
		TL5602	
MB40978	TI	TL5632	
◆ MB4111	SiliconSys	SSI104	
◆ MB4204	AD	CMP04	
		PM139	**(3539)**
		PM339	
◆ MB4204	GoldStar	GL339	
	Harris	CA339	
	Motorola	LM339	
	National	LM339	
	NEC	μPC137	
		μPC177	
		μPC339	
◆ MB4204	Raytheon	LM339	
	TI	LM339	
◆ MB47082	Exar	XR082	
	Harris	CA082	
	TI	TL082	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Fujitsu (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ MB47201	AD	ADG201	
		SW201	
♦ MB47201	Harris	DG201	
		HI201	
♦ MB47201	Maxim	MAX331	
	MicroPwr	MP201	
	National	LF11201	
		LF13201	
♦ MB47201	TeledyneC	TSC4201	
		TSC4202	
♦ MB47358	AD	OP221	
	GoldStar	GL358	
	Harris	CA358	
	Hitachi	HA17358	
	Motorola	LM358	
	National	LM358	
	Philips	LM358	
		NE532	
♦ MB47358	TI	LM348	
	Toshiba	TA75358	
♦ MB47393	Hitachi	HA17393	
	National	LM393	
	NEC	μPC277	
	Toshiba	TA75393	
♦ MB47833	National	LM833	
MB501	GEC Plessey	SP8704	
		SP8705	
MB50104	GEC Plessey	SP8808	
		SP8818	
		SP8828	
		SP8838	
MB50106	GEC Plessey	SP8808	
		SP8818	
		SP8828	
		SP8838	
MB503	GEC Plessey	SP8795	
MB504	GEC Plessey	SP8718	
MB5298	Sharp	LH52258	
MB71A38	AMD	AM27S191	
		63S1681	
	Cypress	CY7C291	
		CY7C292	
		CY7C292A	
	National	DM87S191	
		93Z511	
	Philips	N82S191	
	TI	TBP28S166	
		TBP38L165	
		TBP38L166	
		TBP38S165	
		TBP38S166	
	Waferscale	WS57C191	
		WS57C291	
MB71C44	AMD	AM27C49	
		AM27S49	
	Cypress	CY7C263	
		CY7C264	
	National	93Z565	
		93Z665	
		93Z667	
	Philips	N27HC641	
		N82HS641	
	Waferscale	WS57C49	
MB71C46	AMD	AM27S51	
	Cypress	CY7C254	
	Philips	N82HS1281	
	Waferscale	WS57C51	
MB7111	AMD	AM27S18	
		63S080	
	National	DM74S188	
	Philips	N82S23	
	TI	TBP18SA030	
		TBP38SA030	
MB7112	AMD	AM27S19	
	AD	63S081	
	National	DM74S288	
	Philips	N82S123	
	TI	TBP18S030	
		TBP38S030	
MB7113	AMD	AM27S20	
	AD	63S140	
	National	DM74S387	
	Philips	N82S126	
	TI	TBP24SA10	
MB7114	AMD	AM27S21	
	AD	63S141	
	National	DM74S287	
	Philips	N82S129	
	TI	TBP24S10	
MB7115	AMD	AM27S12	
		63S240	
			(Continued)
MB7115			(Cont'd)
	National	DM74S570	
	Philips	N82S130	
MB7116	AMD	AM27S13	
	AD	63S241	
	National	DM74S571	
	Philips	N82S131	
MB7117	AMD	63S280	
	TI	TBP28LA22	
MB7118	National	DM74LS471	
	Philips	N82S135	
	TI	TBP28L22	
MB7121	AMD	AM27S32	
		63S440	
	National	DM74S572	
	TI	TBP24SA41	
♦ MB7121	Lansdale	HL7642	
MB7122	AMD	AM27S33	
		63S441	
	National	DM74S573	
	Philips	N82S137	
	TI	TBP24S41	
♦ MB7122	Lansdale	HL7643	
MB7123	AMD	AM27S28	
		63S480	
	National	DM74S473	
	TI	TBP28SA42	
♦ MB7123	Lansdale	HL7649	
MB7124	AMD	AM27S29	
		63S481	
	National	DM74S472	
	Philips	N82S147	
	TI	TBP28S42	
MB7128	AMD	AM27S185	
		63S841	
	National	DM87S185	
	Philips	N82S185	
	TI	TBP24S81	
♦ MB7128	Lansdale	HL7685	
MB7132	AMD	AM27S181	
		AM27S281	
		63S881	
	Cypress	CY7C281	
		CY7C282	
	National	DM87S181	
		93Z451	
	Philips	N82S181	
	TI	TBP28S86	
♦ MB7132	Lansdale	HL7681	
MB7134	National	DM87S195	
♦ MB7134	Lansdale	HL76165	
MB7138	AMD	AM27S191	
		AM27S291	
		63S1681	
	Cypress	CY7C291	
		CY7C292	
		CY7C292A	
	National	DM87S191	
		93Z511	
	Philips	N82S191	
	TI	TBP28S166	
		TBP38L165	
		TBP38L166	
		TBP38S165	
		TBP38S166	
	Waferscale	WS57C191	
		WS57C291	
♦ MB7138	Lansdale	HL76161	
MB7138H	Philips	N82S191A	
MB7142	AMD	AM27S43	
		63S3281	
	National	DM87S321	
	Philips	N82HS321	
		N82S321	
	Waferscale	WS57C43	
♦ MB7142	Lansdale	HL76321	
MB7143	Waferscale	WS57C43	
		WS57C49	
MB7144	AMD	AM27C49	
		AM27S49	
	Cypress	CY7C263	
		CY7C264	
	National	93Z565	
		93Z665	
		93Z667	
	Philips	N27HC641	
		N82HS641	
	Waferscale	WS57C43	
		WS57C49	
♦ MB7144	Lansdale	HL76641	
MB7144E-W	Philips	82HS641	
MB7152	AMD	AM27S41	
			(Continued)
MB7226	AMD	AM27S25	
		63RA481	
	Cypress	CY7C225	
	National	DM87SR25	
MB7232	AMD	AM27S35	
		AM27S37	
		63RS881	
	Cypress	CY7C235	
	National	DM87SR181	
		DM87SR183	
	Philips	N82HS187	
		N82HS189	
MB7238	AMD	AM27S45	
		AM27S47	
		63RA161	
		63RA1681	
	Cypress	CY7C245	
	National	DM87SR191	
		DM87SR193	
	TI	TBP38R165	
	Waferscale	WS57C45	
MB8C178A	Toshiba	TC5588	
MB81C100	Motorola	MCM511000A	
MB81C1000	Hyundai	HY531000	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Motorola	MCM511000	
	NEC	μPD421000	
	OKI	MSM511000A	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	TI	TMS4C1024	
	Toshiba	TC511000	
		TC511000B	
MB81C1000A	GoldStar	GM71C1000	
	Mosel-Vitelic	V53C100	
		V53C100B	
	OKI	MSM511000B	
MB81C1001	Motorola	MCM511001	
		MCM511001A	
	NEC	μPD421001	
	OKI	MSM511001A	
	Samsung	KM41C1001	
	Toshiba	TC511001	
		TC511001B	
MB81C1001A	OKI	MSM511001B	
MB81C1002	MicronSemi	MT4C1026	
	NEC	μPD421002	
	OKI	MSM511002A	
		MSM511002B	
	Panasonic	MN41C1002	
	Samsung	KM41C1002	
	TI	TMS4C1027	
	Toshiba	TC511002	
MB81C1003	Motorola	MCM511002	
		MCM511002A	
MB81C256	GoldStar	GM71C256	
MB81C258	OKI	MSM51C256A	
MB81C4251	NEC	μPD42273	
	TI	TMS44C250	
		TMS44C251	
MB81C4253	NEC	μPD42274	
	TI	TMS44C250	
		TMS44C251	
MB81C4256	GoldStar	GM71C4256	
		GM71C7256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Motorola	MCM514256	
		MCM514256A	
	NEC	μPD424256	
	OKI	MSM514256A	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	TI	TMS44C256	
	Toshiba	TC514256	
		TC514256B	
MB81C4256A	GoldStar	GM71C4256A	
	Hyundai	HY534256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	OKI	MSM514256B	
MB81C4256AL			
	GoldStar	GM71C1000L	
		GM71C4256AL	
MB81C4257	Panasonic	MN41C4258	
MB81C4258	MicronSemi	MT4C4258	
	Motorola	MCM514258	
		MCM514258A	
			(Continued)
MB81C4258			(Cont'd)
	OKI	MSM514258	
		MSM514258A	
	Samsung	KM44C258	
	Toshiba	TC514258	
		TC514258B	
MB81C466	Mosel-Vitelic	V53C466	
	OKI	MSM51C464A	
MB81C67	Cypress	CY7C167	
		CY7C167A	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	SGS-Thomson		
		MK41H67	
	Sharp	LH5167	
MB81C68	Cypress	CY7C168	
		CY7C168A	
	IDT	IDT6168	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Motorola	MCM6268	
	SGS-Thomson		
		IMS1423	
		MK41H68	
MB81C68A	Motorola	MCM6268	
MB81C69	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Motorola	MCM6269	
	Performance	P4C169	
MB81C71	Cypress	CY7C187	
	IDT	IDT7187	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	SGS-Thomson		
		IMS1600	
	Toshiba	TC5561	
		TC5562	
MB81C71A	Krueger	6287-35	
		6287-45	**(36**
		6287-55	
	Motorola	MCM6287	
MB81C74	Cypress	CY7C164	
	IDT	IDT7188	
	Krueger	**6288-25**	**(36**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	Performance	P4C188	
	Samsung	KM6465	
	SGS-Thomson		
		IMS1620	
	Toshiba	TC55416	
MB81C75	Cypress	CY7C166	
	IDT	IDT7198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C165	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Performance	P4C198	
	Samsung	KM6466	
	SGS-Thomson		
		IMS1624	
	Toshiba	TC55417	
MB81C78	Cypress	CY7C186	
	IDT	IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Performance	P4C164	
	SGS-Thomson		
		MK48H64	
	Sony	CXK5863	
MB81C78A	Mosel-Vitelic	MS6264A	
	Motorola	MCM6264	
MB81C78A-35			
	Krueger	6264LP-035	
MB81C78A-45			
	Krueger	6264LP-045	
MB81C79	Motorola	MCM6265	
	Sony	CXK5971	
	Toshiba	TC5589	
♦ MB81C79	Rochester	69CE72	

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
MB81C81	Cypress	CY7C197	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Performance	P4C1257	
	Samsung	KM61257	
B81C81A	Cypress	CY7C197	
	Mosel-Vitelic	MS62251A	
	Motorola	MCM6207	
B81C84	Cypress	CY7C194	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mosel-Vitelic	MS62252A	
	Samsung	KM64257	
	Sharp	LH52252	
B81C84A	Cypress	CY7C194	
	Motorola	MCM6208	
	Toshiba	TC55464	
B81C86	Cypress	CY7C192	
	LogicDev	L7C192	
	Samsung	KM64259	
B811000	Panasonic	MN411000	
B8114	**Krueger**	**2114-200**	**(3663)**
B811414	**Krueger**	**2114-150**	**(3663)**
		2114-450	**(3663)**
B8116	Krueger	4116-120	
		4116-150	
		4116-200	
B8116100	Hyundai	HY511610	
	MicronSemi	MT4C16MX1	
B8116400	Hyundai	HY511640	
	MicronSemi	MT4C4M4X1	
B81256	GoldStar	GM71C256A	
		GM71256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	
	NEC	μPD41256	
	OKI	MSM41256A	
	Panasonic	MN41256	
	Samsung	KM41C256	
	Siemens	HYB41256	
81257	OKI	MSM41257A	
	Panasonic	MN41257	
	Samsung	KM41C257	
81258	Mosel-Vitelic	V53C258	
	Samsung	KM41C258	
81271	Motorola	MCM6287	
8128	AMD	AM9122	
	Cypress	CY7C128	
	Krueger	**2128-100**	**(3663)**
		2128-120	**(3663)**
	Performance	P4C116	
81410Z	MicronSemi	MT4C1006	
814100	GoldStar	GM71C4100A	
	MicronSemi	MT4C1004	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
		MCM54100A	
	NEC	μPD424100	
	Samsung	KM41C4000	
	TI	TMS44100	
	Toshiba	TC514100	
814100A	Hyundai	HY514100	
814101	Samsung	KM41C4001	
814102	Samsung	KM41C4002	
81416	Krueger	41416-100	
		41416-120	
		41416-150	
81416	Rochester	4416	
814260	GoldStar	GM71C4260	
814400	GoldStar	GM71C4400A	
	MicronSemi	MT4C4001	
	Mosel-Vitelic	V53C404	
	Motorola	MCM514400	
		MCM54400	
		MCM54400A	
	NEC	μPD424400	
	Samsung	KM44C1000	
	TI	TMS44400	
		TMS44410	
	Toshiba	TC514400	
814400A	Hyundai	HY514400	
	OKI	MSM514400A	
814402	MicronSemi	MT4C4003	
	Samsung	KM44C1002	
1461	GoldStar	GM53C261	
		GM53C461	
			(Continued)
MB81461			(Cont'd)
	Krueger	4461-100	
		4461-120	
		4461-150	
	Mosel-Vitelic	V53C261	
	Panasonic	MN47464	
MB81464	GoldStar	GM71C464	
		GM71C464A	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mosel-Vitelic	V53C464	
	NEC	μPD41464	
	OKI	MSM41464	
	Panasonic	MN41464	
	Samsung	KM41C464	
MB81466	Samsung	KM41C466	
MB814800	GoldStar	GM71C4800	
♦ MB8164A	Rochester	61CD16	
MB8167	AMD	AM2167	
	Harris	HM65262	
MB8167A	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
MB8168	AMD	AM2168	
	Cypress	CY7C168A	
	Performance	P4C168	
♦ MB8168	Rochester	64C16	
MB8171	Cypress	CY7C187	
	Performance	P4C187	
MB82B001	MicronSemi	MT5C1001	
	Motorola	MCM6227A	
	NEC	μPD431001	
MB82B005	MicronSemi	MT5C1005	
	Motorola	MCM6229A	
	NEC	μPD431004	
MB82B00525	Mosel-Vitelic	MS621002	
MB82B74	Samsung	KM64B65	
MB82B75	LogicDev	L7C166	
	Samsung	KM64B66	
	Toshiba	TC55B417	
MB82B78	Motorola	MCM6264	
MB82B79	Motorola	MCM6265	
MB82B81	LogicDev	L7C197	
	Motorola	MCM6207	
MB82B84	Motorola	MCM6208	
	Toshiba	TC55B464	
MB82B85	Motorola	MCM6209	
	Toshiba	TC55B465	
MB82B88	Motorola	MCM6206	
	Toshiba	TC55B328	
MB82B89	Motorola	MCM6205	
	Toshiba	TC55B329	
MB82006	Samsung	KM641001	
MB82008	Hitachi	HM628127	
		HM628128	
	IDT	IDT71B124	
	MicronSemi	MT5C128K8	
	Motorola	MCM6726	
	Samsung	KM681002	
	Sony	CXK581120	
	Toshiba	TC55B8128	
MB82009	Hitachi	HM62927	
	MicronSemi	MT5C1189	
MB8216	Krueger	4116-120	
		4116-150	
		4116-200	
MB82201	Motorola	MCM6249	
	Samsung	KM644002	
MB82208	MicronSemi	MT5C512K8	
	Motorola	MCM6246	
	Samsung	KM684002	
MB8264	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
MB8264A	OKI	MSM3764A	
MB8287	Cypress	CY7C199	
	Mosel-Vitelic	MS62256A	
	Samsung	KM68257	
	Toshiba	TC55328	
MB8288	Motorola	MCM6206	
MB8289	Motorola	MCM6205	
	Toshiba	TC55329	
MB8298	MicronSemi	MT5C2568	
	Motorola	MCM6206	
MB8299	Motorola	MCM6205	
MB831000	GoldStar	GM231000	
	OKI	MSM531000A	
	Panasonic	MN231001	
MB831124	Samsung	KM23C1000	
MB832000	Samsung	KM23C2000	
			(Continued)
MB832000A	OKI	MSM532001A	
MB832001	Samsung	KM23C2000	
MB83256	OKI	MSM53256	
	Panasonic	MN23257	
MB834000	Panasonic	MN234001	
MB834000B	OKI	MSM534001A	
MB834100	GoldStar	GM23C4000	
	OKI	MSM534000	
	Samsung	KM23C4000	
	Toshiba	TC534200	
MB834200	GoldStar	GM23C4100	
	Panasonic	MN234000	
MB834200A	OKI	MSM534002A	
MB8364	Panasonic	MN2364	
MB83800	Samsung	KM23C8000	
MB838000	OKI	MSM538001B	
	Toshiba	TC538000	
MB8401	Harris	HM6508	
MB8404	Harris	HM6504	
MB841000	Toshiba	TC551001	
MB841000AL	GoldStar	GM76C8128L	
MB8414	Harris	HM6514	
	Krueger	21C14-150	
		21C14-200	
		21C14-450	
MB8416	GoldStar	GM76C28	
	Harris	HM65162	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	Mosel-Vitelic	MS6516	
	Panasonic	MN4416	
	UMC	UM6116	
MB8416A	Hyundai	HY6116A	
MB84256	Catalyst Semi	CAT71C256	
	Hitachi	HM62256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mitsubishi	M5M52256	
	Mosel-Vitelic	MS62256	
		MS62257	
	Motorola	MCM60256	
	NEC	μPD43256	
	OKI	MSM51257	
		M5M51256	
	Panasonic	MN44256	
	Samsung	KM62256	
	Sharp	LH51256	
		LH52250AL	
	Sony	CXK58257	
	Toshiba	TC55256	
		TC55257	
	UMC	UM62256	
MB84256A	GoldStar	GM76C256	
	Hyundai	HY62256A	
	Mosel-Vitelic	MS62256	
		MS62257	
MB8454	GoldStar	GM76C88	
MB8464	Cypress	CY7C185	
	GoldStar	GM76C88	
	Harris	HM65642	
	Krueger	**6264-100**	**(3663)**
	-	**6264-120**	**(3663)**
		6264-150	**(3663)**
	LogicDev	L7C185	
	Mosel-Vitelic	MS6264	
	OKI	MSM5165	
	Panasonic	MN4464	
	Performance	P4C164	
	Samsung	KM6264	
	Sharp	LH5168	
	Sony	CXK5864	
	Toshiba	TC55257	
		TC5563	
	UMC	UM6264	
♦ MB8464	Rochester	68CE64	
MB8464A	Hyundai	HY6264A	
	Mosel-Vitelic	MS6264	
		MS6264A	
		MS6265	
MB8464A-L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
			(Continued)
MB8464A-70L	Krueger	6264LP-070	
MB8464L	GoldStar	GM76C88L	
MB85214	Mosel-Vitelic	V256J8	
MB85225	NEC	MC41256A8	
MB85227	NEC	MC41256A9	
MB85230	GoldStar	GMM781000S	
	MicronSemi	MT8D18	
	Motorola	MCM81000	
	NEC	MC421000A8	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
	Toshiba	THM81000	
MB85231	Motorola	MCM81001	
	NEC	MC421000B8	
MB85235	GoldStar	GMM791000S	
	MicronSemi	MT9D19	
	Motorola	MCM91000	
	NEC	MC421000A9	
	TI	TM024EAD9	
		TM124EAD9C	
	Toshiba	THM91000	
MB85236	Toshiba	THM362500	
MB85237	Motorola	MCM91002	
	TI	TM024EAD9	
		TM124EAD9C	
MB85240	Motorola	MCM94256	
	TI	TM256GU9	
	Toshiba	THM92500	
MB85250	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
MB85254	Toshiba	THM405120	
MB85265	TI	TM024EAD9	
		TM124EAD9C	
MB85277	Mosel-Vitelic	V256J9	
MB85280	MicronSemi	MT8D48	
MB85285	MicronSemi	MT9D49	
MB85295	GoldStar	GMM794000S	
MB85303	MicronSemi	MT2D18	
MB85305	MicronSemi	MT3D19	
MB85327	NEC	MC421000C9	
MB85340	MicronSemi	MT8D132	
MB85342	MicronSemi	MT16D232	
MB85345	MicronSemi	MT12D136	
MB85347	MicronSemi	MT24D236	
MB85414	MicronSemi	MT8S1632	
MB855231	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
MB86903		8701	
MB86921	Cypress	CY7C604	
MB86961	Level One	LXT901	
MB86962	Level One	LXT902	
M5L8255A	OKI	MSM82C55A	
NE8392	Crystal	CS83C92	
100422	Krueger	100422	
100474	Krueger	100474	
10415	Krueger	10415	
10474	Krueger	10474	
7122E	Philips	82S137	
7122H	Philips	82S137A	
7122Y	Philips	82S137B	
7128E	Philips	82S185	
7128H	Philips	82S185A	
7128Y	Philips	87S185B	
7132E	Philips	82S181	
7132H	Philips	82S181A	
7142H	Philips	82HS321	
7152E	Philips	82HS195	
7152H	Philips	82HS195A	
86965	AT&T	T7231	

GEC Plessey Semiconductors

Manufacturer Device	Replacement Source	Device	IC Master Page
CA3046E	GEC Plessey	SL3046C-DP	
CT1487	ILC-DDC	BUS63105	
		BUS63106	
		BUS63115	
		BUS63116	
		BUS63125	
		BUS63126	
		BUS63135	
		BUS63136	
	Micro-Rel	MR63105	
		MR63125	
	STC	FC15536	
	UTMC	UT63M105	
		UT63M115	
		UT63M125	
		UT63M135	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

GEC Plessey Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
CT1589	ILC-DDC	BUS63107	
		BUS63108	
		BUS63117	
		BUS63118	
		BUS63127	
		BUS63128	
		BUS63137	
		BUS63138	
	STC	FC15537	
	UTMC	UT63M107	
		UT63M117	
		UT63M127	
		UT63M137	
CT1775	ILC-DDC	BUS65201	
CT2077	ILC-DDC	BUS62300	
	STC	FC15537	
CT2511	ILC-DDC	BUS65111	
CT2512	ILC-DDC	BUS65112	
CT2513	ILC-DDC	BUS65113	
CT2521	ILC-DDC	BUS63147	
	STC	FC15539	
CT2522	STC	FC15539	
CT2542	ILC-DDC	BUS65142	
CT2553	ILC-DDC	BUS61553	
CT2554	ILC-DDC	BUS61554	
CT2555	ILC-DDC	BUS61555	
CT2559	ILC-DDC	BUS61559	
CT2565	ILC-DDC	BUS65600	
CT2566	ILC-DDC	BUS66300	
CT3077	ILC-DDC	BUS62300	
	STC	FC15537	
CT3078	ILC-DDC	BUS8555	
CT3231	ILC-DDC	BUS63104	
		BUS63114	
	STC	FC15537	
CT3232	ILC-DDC	BUS63102	
		BUS63112	
	Micro-Rel	MR3232	
	STC	FC15538	
MAS15530	Harris	HS15530	
MA15530	Harris	HD15530	
MJ1471	Harris	CD22103	
◆ MJ1471	Harris	CD22103	
	Motorola	MC142103	
◆ MJ2812	AMD	AM2812	
◆ MJ2813	AMD	AM2813	
◆ MJ2841	AMD	AM2841	
		AM3341	
		C57401	
◆ MJ2841	Cypress	CY3341	
	National	F3341	
		2841	
MT8865	Mitel	MT8865	
MV1710	Philips	SAA1710	
MV1720	Philips	SAA1720	
MV1815	Philips	SAA5190	
		SAA5231	
		SAA5235	
		SAA5236	
		SAA5243	
		SAA5245	
		SAA5246	
		SAA9041	
	Siemens	SDA5231	
		SDA5243	
		SDA5645	
		SDA9231	
		SDA9243	
MV3000	AMD	AM7901	
		AM7902	
		AM7905	
	Siemens	**PEB2060**	**(3770)**
MV3506	American Micro	S3506	
	Mitel	MT3506	
MV3507	American Micro	S3507	
	Mitel	MT3507	
MV4320	Mitel	MT4320	
MV500	Microchip	AY500	
	Philips	SAA3004	
		SAA3006	
		SAA3027	
		SAA3028	
	SGS-Thomson	STC500	
	Siemens	SDA2208	
MV5087	Mitel	MT5087	
	National	TP5087	
	SGS-Thomson	EFB7189	
		MS5087	
	TI	TCM5087	
MV5089	American Micro	525089	
	Harris	CD22859	
		ICM7206	
	Microchip	AY59480	
	Mitel	MT5089	
	Motorola	MC14410	
	National	TP5089	
	Philips	PCD3311	
	Samsung	MK5089	
	SGS-Thomson	MS5089	
	STC	STC5089	
	TI	TCM5089	
MV65401	AMD	67401	
		67411	
MV65402	AMD	67402	
		67412	
MV66030	Philips	PC74HC7030	
	TRWLSI	TDC1030	
MV6639	Philips	PCA5000	
MV66401	AMD	C67L401	
		C67401	
		D67L401	
		67L401	
	AD	C67L401	
		C67L402	
	Cypress	CY7C401	
	IDT	IDT72401	
	National	DM87S401	
		DM87S402	
		2841	
		74F13	
MV66402	AMD	C67L402	
		C67402	
		D67L402	
	AD	C67L402	
	Cypress	CY7C402	
	IDT	IDT72402	
	National	DM87S402	
MV66403	AMD	C67L4013	
	Cypress	CY7C403	
	IDT	IDT72403	
MV66404	Cypress	CY7C404	
	IDT	IDT72404	
MV74HCT137	GEC Plessey	74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
MV74HCT138	GEC Plessey	74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
MV74HCT139	GEC Plessey	74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	Philips	74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	**(3836)**
MV74HCT237	GEC Plessey	74HCT237	
	Harris	CD74HCT22106	
		CD74HCT237	
	Philips	74HCT237	
	TI	SN74HCT237	
MV74HCT238	GEC Plessey	74HCT238	
	Harris	CD74HCT238	
	Philips	74HCT238	
	TI	SN74HCT238	
MV74HCT240	GEC Plessey	74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
MV74HCT241	GEC Plessey	74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
MV74HCT244	GEC Plessey	74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
MV74HCT245	GEC Plessey	74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
MV74HCT373	GEC Plessey	74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
MV74HCT374	GEC Plessey	74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
MV74HCT533	GEC Plessey	74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
MV74HCT534	GEC Plessey	74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(38**
MV74HCT540	GEC Plessey	74HCT540	
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(38**
MV74HCT541	GEC Plessey	74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(38**
MV74HCT563	GEC Plessey	74HCT563	
	Harris	CD74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	**(38**
MV74HCT564	GEC Plessey	74HCT564	
	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	**(38**
MV74HCT573	GEC Plessey	74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
MV74HCT574	GEC Plessey	74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3**
MV8865	Mitel	MT8865	
MV8870	CMD Micro	G8870	
	Mitel	MT8870	
	Samsung	KT3170	
MV95308	SGS-Thomson	EF8408	
NJ88C33	**Siemens**	**TBB200**	**(3**
NJ8820	Motorola	MC145145	
		MC145146	
NJ8821	Motorola	MC145155	
		MC145156	
		MC145157	
		MC145158	
		MC145159	
NJ8822	Motorola	MC145156	
REF100	AD	AD2710	
		AD2720	
		AD581	
		REF01	**(3**
		REF10	
	LinearTech	REF01	
	Motorola	MC1400-10	
		MC1404-10	
	Raytheon	REF01	
REF12	AD	AD589	
	Harris	ICL8069	
	LinearTech	ICL8069	
		LT1004-1.2	
	Motorola	LM285-1.2	
		LM385-1.2	
	National	LM113-1.2	
		LM185-1.2	
		LM285-1.2	
		LM385-1.2	

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

GEC Plessey Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
REF25	AD	AD580	
	LinearTech	LM335-2.5	
		LM336-2.5	
		LT1004-2.5	
		LT1009	
		LT1019	
	Motorola	LM285-2.5	
		LM385-2.5	
		MC1400	
		MC1403	
		TL431	
	National	µA431	
		LM185-2.5	
		LM285-2.5	
		LM336-2.5	
		LM385-2.5	
	SGS-Thomson	LM236	
		LM336	
REF50	AD	REF02	
	LinearTech	LT1019-5	
		LT1021-5	
		LT1029-5	
	Motorola	MC1400-5	
		MC1404-5	
	National	LM336-5	
	Raytheon	REF02	
SD9756	Siemens	SDA5200	
SL3045	Harris	CA3045	
SL3046	Harris	CA3045	
		CA3046	**(3637)**
	Linfinity Micro	SG3045	
		SG3046	
		SG3821	
	Motorola	MC3046	
	National	DS3046	
		F3146	
		LM3045	
		LM3046	
		3046	
	SGS-Thomson	CA3046	
		LM3046	
		TBA331	
SL3046C-DP	GEC Plessey	CA3046E	
SL3127	**Harris**	**CA3127**	**(3637)**
SL3145	Harris	CA3045	
		CA3046	**(3637)**
		CA3145	
	Linfinity Micro	SG3821	
	Motorola	MC3346	
	National	DS3145	
		LM3146	
		3145	
SL3146	Harris	CA3146	
SL32046	Allegro Micro	ULN2046	
SL3227	Harris	CA3227	
SL3245	Harris	CA3245	
		CA3246	
SL360	AD	MAT01	
SL362	AD	MAT02	
SL376	AMD	AM79M57	
SL486	NEC	µPC1474	
	Sharp	GP1U56	
SL490	SGS-Thomson	UAA4000	
SL5065	Siemens	TDA5664	
SL521	AD	AD9521	
	Harris	**HSP9521**	**(3637)**
SL541	MicroNet	MN541	
	Philips	NE5539	
		SE5539	
SL560	National	LH001	
		LH002	
SL562	Motorola	MC1776	
SL6140	Motorola	MC1590	
SL6310	Harris	CA3094	
SL641C	Micrel	MIC641	
SL6639	Philips	UAA2033	
SL6652	Motorola	MC3359	
		MC3361	
		MC3367	
	Philips	**NE602**	**(3732)**
		NE604	
SL6654	Motorola	MC3359	
		MC3361	
		MC3367	
SL6654			(Cont'd)
	Philips	**NE602**	**(3732)**
		NE604	
		NE605	**(3734)**
SL6655	Motorola	MC3359	
		MC3361	
		MC3367	
SL7950	AMD	AM7950	
	Ericsson	PBL3736	
	Harris	HC5502	
		HC5504	
	SGS-Thomson	L3000	
		L3030	
SL7953	AMD	AM7953	
	Ericsson	PBL3736	
	Harris	HC5502	
		HC5504	
SL8204	Mitel	ML8024	
SL9753	SGS-Thomson	L3000	
		L3030	
SP1648	Motorola	MC1648	
SP1658	Motorola	MC1658	
SP1660	Motorola	MC1660	
SP4541	Siemens	SD4040	
SP4632	AEG Corp	U664	
	Philips	SAB1164	
	Siemens	SDA2101	
SP4642	AEG Corp	U668	
SP4653	AEG Corp	U666	
	Philips	SAB1018	
SP4660	Philips	SAB1018	
SP4666	Siemens	SDA4121	
SP4731	Siemens	SDA2211	
SP4780	AEG Corp	U496	
	Philips	SAB1534	
SP5000	Siemens	SDA3203	
	Toshiba	TD6352	
SP5004	Siemens	SDA3202	
SP5005	Siemens	SDA3202	
SP5308	**Harris**	**CA3338**	**(3639)**
SP5408	**Harris**	**CA3338**	**(3639)**
SP5510	Philips	TSA5510	
	Siemens	SDA3302	
SP8610	Fujitsu	FMM100	
	Motorola	MC1699	
	National	11C05	
	Philips	SA1034	
		SA1534	
SP8611	Fujitsu	FMM100	
	Harris	CA3199	
SP8629	AMD	MM8629	
	National	MM8629	
SP8647	Motorola	MC12013	
		MC12513	
	National	95H90	
SP8657	Harris	CA3232	
SP8658	National	DS8628	
SP8680	National	11C90	
SP8685	National	11C90	
SP8703	Mitsubishi	MGF8003	
		M54475	
	Motorola	MC12012	
		MC12018	
SP8704	Fujitsu	MB501	
	Mitsubishi	MGF8003	
		M54475	
	Motorola	MC12018	
		MC12022	
SP8705	Fujitsu	MB501	
	Motorola	MC12022	
SP8712	Fujitsu	FMM100	
SP8718	Fujitsu	MB504	
	Motorola	MC12017	
	National	DS8617	
SP8740	Motorola	MC12009	
	National	11C91	
SP8743	Motorola	MC12011	
		MC12511	
SP8755	AEG Corp	U264	
	Philips	SAB1164	
		SAB1165	
	Siemens	SDA2001	
		SD436	
SP8789	Motorola	MC12019	
	National	DS8614	
SP8793	Motorola	MC12016	
	National	DS8616	
SP8795	Fujitsu	MB503	
	National	DS8616	
SP8797	Motorola	MC12015	
	National	DS8615	
SP8804	Fujitsu	FMM100	
SP8808	Fujitsu	MB50104	
		MB50106	
SP8812	AEG Corp	U6502	
	NEC	µPB581	
		µPB584	
SP8814	Fujitsu	FMM100	
	NEC	µPB582	
		µPB585	
SP8818	Fujitsu	MB50104	
		MB50106	
SP8822	AEG Corp	U6502	
SP8824	Fujitsu	FMM100	
	NEC	µPB587	
SP8828	Fujitsu	MB50104	
		MB50106	
	NEC	µPB587	
SP8832	AEG Corp	U6502	
SP8835	Fujitsu	FMM100	
SP8838	Fujitsu	MB50104	
		MB50106	
SP8853	Fujitsu	MB1502	
SP8861	Fujitsu	MB1502	
SP9131	Motorola	MC10131	
SP95308	Sony	CXA1106	
SP9680	AMD	AD680	
SP9685	AMD	AD685	
	Signal Proc	HCMP96850	
SP9687	AMD	AD687	
SP973	Datel	ADC208	
		ADC300	
		ADC301	
		ADC302	
	Harris	CA3308	
	Hitachi	HA19209	
	Motorola	MC10319	
	SGS-Thomson	TS8308	
	Sony	CXA1096	
SP9750	Datel	ADC303	
SP97504	AD	AD9688	
SP97508	Datel	ADC303	
	Honeywell	HDAC77100	
		HDAC77200	
	Siemens	SDA8010	
	Sony	CX20116	
	TRWLSI	TDC1025	
SP9754	AMD	AM6688	
	AD	AD9000	
SP9756	NEC	µPD6951	
	SGS-Thomson	TS8306	
	TRWLSI	TDC1029	
SP9758	Siemens	SDA5200	
	TRWLSI	TDC1029	
SP97618	AD	AD9700	
	Brooktree	BT108	
	Hitachi	HA19501	
	Honeywell	HDAC10180	
		HDAC10181	
		HDA97000	
	IDT	IDT75C18	
	TRWLSI	TDC1018	
SP9768	AMD	AD9768	
	AD	**AD9768**	**(3517)**
SP9770	AD	DAC10	
	Raytheon	DAC10	
	TRWLSI	TDC1016	
SP98608	Honeywell	HDAC51400	
TAB1042	Exar	XP1042	
	Motorola	MC1402	
TDA1085	Motorola	TDA1085	
TDA1185	Motorola	TDA1185	
TDA2560	American Micro	S2560	
ZNREF025	AD	AD580	
		REF03	**(3536)**
	LinearTech	LM136	
		LT1009	
		LT1019M-2.5	
	Motorola	TL431	
	National	µA431	
		LM136	
		LM236	
ZNREF050	AD	REF02	
		REF05	
	LinearTech	LM236-5	
		LM268-5	
		LT1019-5	
		LT1021-5	
		LT1029-5	
		REF02	
ZNREF050			(Cont'd)
	Motorola	MC1500-5	
	National	LM136-5	
		LM168-5	
		LM185-5	
	Raytheon	REF02	
ZNREF062	LinearTech	LT1019-6	
	Motorola	MC1400-6	
		MC1404-6	
		MC1500-6	
	National	LM168-6	
		LM268-6	
		LM368-6	
ZNREF100	AD	AD2700	
		AD2701	
		AD2702	
		AD2710	
		AD2720	
		AD581	
		REF01	**(3536)**
		REF10	
	LinearTech	LT0070	
		LT0071	
		LT1019-10	
		LT1021-10	
		LT1031	
		REF01	
	Motorola	MC1500-10	
	National	LH0070	
		LH0071	
		LM168-10	
		LM268-10	
		LM368-10	
	Raytheon	REF01	
ZN404	Motorola	TL431	
ZN423	LinearTech	LM185-1.2	
		LM385-1.2	
		LT1034	
	National	LM113	
		LM313	
ZN425	Datel	ADCMC8	
ZN426	Burr-Brown	DAC82	
		DAC90	
	Datel	DACHF8	
		DACHI8	
		DACIC8	
		DAC08	
	National	DAC0802	
ZN427	AD	ADC89	
		AD376	
		AD670	
		AD7574	
	Datel	ADCEH8	
		ADCEK8	
		ADCEON	
		ADCET8	
		ADCE8	
		ADCG8	
		ADCL8	
		ADCM8	
		ADC501	
		ADC815	
		ADC825	
	Motorola	MC6108	
	TeledyneC	TSC8700	
ZN428	AMD	AM6080	
	AD	AD7524	
		PM7524	
	Datel	DAC608	
	MicroPwr	MP7524	
	Motorola	MC6890	
	National	DAC0830	
		DAC0831	
		DAC0832	
		DAC1002	
		DAC1008	
	Philips	NE5018	
		NE5019	
		NE5118	
		NE5119	
	Sipex	DAC336	
ZN429	AMD	AM1408	
		AM1508	
		DAC08	
	AD	AD1408	
		AD1508	
		AD7523	
		DAC08	
	Maxim	AD7523	
	MicroPwr	MP7523	
	Motorola	MC1408	
		MC1508	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

GEC Plessey Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ZN429			(Cont'd)
	National	DAC0800	
		DAC0807	
		DAC0808	
		DAC1022	
		DAC1222	
		DAC801	
	Philips	MC1408	
		MC1508	
	Sipex	DAC331	
		DAC337	
ZN432	Burr-Brown	ADC80	
	MicroPwr	MP7570	
	National	ADC1001	
		ADC1021	
		ADC1080	
	TeledyneC	TSC8701	
		TSC8704	
ZN433	Datel	ADC856	
ZN436	MicroPwr	MP5520	
	Motorola	MC1406	
		MC1506	
	National	DAC0806	
ZN437	AD	AD7581	
	Maxim	AD7581	
		AD7828	
	MicroNet	**MN7120**	**(3691)**
	MicroPwr	MP7581	
	National	ADC0808	
		ADC0809	
		ADC0811	
	NEC	µPD7004	
	Siliconix	SI520	
		SI8601	
		SI8602	
	TI	ADC0808	
		ADC0809	
		TL0808	
		TL0809	
ZN438	AD	AD7224	
	Maxim	AD7224	
ZN439	AMD	AM6108	
		AM6148	
	AD	AD7820	
		HAS0802	
	Analogic	MP8008	
	Burr-Brown	ADC82	
	Datel	ADC830	
	Harris	ADC0801	
		ADC0802	
		ADC0803	
		ADC0804	
	Maxim	AD7820	
	MicroPwr	MP7683	
		MP7684	
	National	ADC0820	
	NEC	µPD7003	
	TeledyneC	TSC8703	
ZN440	AD	AD5010	
		AD6020	
		AD9000	
	Harris	CA3300	
	MicroPwr	MP7682	
	TRWLSI	TDC1014	
		TDC1046	
ZN441	AD	AD5010	
		AD6020	
	Datel	ADC833	
	MicroPwr	MP7682	
ZN447	AMD	AM2502	
		AM2503	
		AM6108	
		AM6148	
	Burr-Brown	ADC60	
	Datel	ADC847	
		ADC881	
	Harris	ADC0801	
	National	ADC0801	
	TI	ADC0801	
ZN448	AD	AD570	
		AD673	
		AD7574	
		AD7576	
	Burr-Brown	ADC82	
	Harris	ADC0802	
		ADC0803	
	Maxim	AD7574	
	MicroPwr	MPS7574	
	Motorola	MC145041	
			(Continued)
ZN448			(Cont'd)
	National	ADC0802	
		ADC0803	
	Philips	NE5034	
	Sipex	ADC541	
	TeledyneC	TSC8700	
		TSC8703	
	TI	ADC0802	
		ADC0803	
	TRWLSI	TDC1001	
		TDC1002	
ZN449	AD	AD7576	
	Datel	ADC847	
		ADC857	
	Harris	ADC0804	
	MicroPwr	MPS7574	
	National	ADC0800	
		ADC0804	
		ADC0805	
	Philips	NE5036	
		NE5037	
	Sipex	ADC541	
	TI	ADC0804	
		ADC0805	
ZN450	Analogic	MP2321	
	Harris	ICL7106	
	Motorola	MC14433	
ZN451	Analogic	MP2321	
	Harris	ICL7106	
		ICL7116	
	Maxim	ICL7106	
		ICL7126	
		ICL7136	
	Motorola	MC14433	
	National	ADC3511	
		ADC3711	
	Siliconix	L111	
ZN454	AD	AD9702	
		AH8304	
		AH8404	
	Brooktree	BT103	
		BT444	
	Datel	DAC8308	
	Honeywell	HDAC34010	
		HDAC34020	
	TRWLSI	TDC1334	
ZN455	AD	AH8304	
		AH8404	
	Brooktree	BT450	
ZN458	Datel	VR182	
ZN501	AD	AD571	
		AD573	
		AD579	
		HAS1002	
	Datel	ADCET10	
		ADCE10	
		ADCHU3	
		ADCK10	
		ADCL10	
		ADCMA10	
		ADCM10	
		ADC816	
		ADC826	
	National	ADC1001	
		ADC1021	
		ADC1080	
	TeledyneC	TSC8701	
		TSC8704	
ZN502	AD	AD571	
		AD573	
		AD579	
	Harris	CA3310	
	National	ADC1001	
		ADC1021	
ZN503	AD	ADC816	
		ADC884	
		AD575	
		AD7571	
	Burr-Brown	ADC80	
		ADC84	
	Datel	ADCEH10	
	MicroPwr	MP7570	
ZN504	AD	AD575	
		AD7571	
	National	ADC1005	
		ADC1025	
ZN508	AD	DAC8212	
ZN509	MicroNet	MN5065	
		MN5066	
		MN5100	**(3690)**
		MN5101	**(3690)**
		MN5120	
		MN5130	**(3690)**
			(Continued)
ZN509	**MicroNet**		**(Cont'd)**
		MN5140	**(3690)**
		MN5150	
		MN5815	
		MN5825	**(3690)**
	National	ADC0831	
	TI	ADC0831	
		TLC549	
ZN515	TRWLSI	TDC1018	
ZN534	LinearTech	LT1028	
ZN558	AMD	AM6081	
	AD	AD558	
		AD7524	
		PM7524	
	Datel	DAC608	
	Maxim	AD7524	
	MicroPwr	MP7524	
	Motorola	MC6890	
	National	DAC0830	
		DAC0831	
		DAC0832	
		DAC1002	
		DAC1008	
	Philips	NE5018	
		NE5019	
		NE5118	
		NE5119	
	Sipex	DAC336	
	TI	TLC7524	
ZN6012	AMD	AM6012	
54HCT137SOS			
	GoldStar	GD54HCT137	
	Harris	CD54HCT137	
	TI	SN54HCT137	
54HCT138SOS			
	GoldStar	GD54HCT138	
	Harris	CD54HCT138	
	Motorola	MC54HCT138A	
	National	MM54HCT138	
	TI	SN54HCT138	
54HCT139SOS			
	GoldStar	GD54HCT139	
	Harris	CD54HCT139	
	National	MM54HCT139	
54HCT237SOS			
	Harris	CD54HCT237	
	TI	SN54HCT237	
54HCT238SOS			
	Harris	CD54HCT238	
	TI	SN54HCT238	
54HCT239SOS			
	GEC Plessey	54HCT240SOS	
	Harris	CD54HCT240	
	Motorola	MC54HCT240A	
	National	MM54HCT240	
	TI	SN54HCT240	
54HCT240SOS			
	GEC Plessey	54HCT239SOS	
	Harris	CD54HCT240	
	Motorola	MC54HCT240A	
	National	MM54HCT240	
	TI	SN54HCT240	
54HCT241SOS			
	GoldStar	GD54HCT241	
	Harris	CD54HCT241	
	Motorola	MC54HCT241A	
	National	MM54HCT241	
	TI	SN54HCT241	
54HCT244SOS			
	GoldStar	GD54HCT244	
	Harris	CD54HCT244	
	Motorola	MC54HCT244A	
	National	MM54HCT244	
	TI	SN54HCT244	
54HCT245SOS			
	GoldStar	GD54HCT245	
	Harris	CD54HCT245	
	Motorola	MC54HCT245A	
	National	MM54HCT245	
	TI	SN54HCT245	
54HCT373SOS			
	GoldStar	GD54HCT373	
	Harris	CD54HCT373	
	Motorola	MC54HCT373A	
	National	MM54HCT373	
	TI	SN54HCT373	
54HCT374SOS			
	GoldStar	GD54HCT374	
	Harris	CD54HCT374	
	Motorola	MC54HCT374A	
	National	MM54HCT374	
	TI	SN54HCT374	
54HCT533SOS			
	GoldStar	GD54HCT533	
	Harris	CD54HCT533	
	Motorola	MC54HCT533A	
	National	MM54HCT533	
	Rochester	54HCT533	
54HCT534SOS			
	GoldStar	GD54HCT534	
	Harris	CD54HCT534	
	Motorola	MC54HCT534A	
	National	MM54HCT534	
54HCT540SOS			
	Harris	CD54HCT540	
	Motorola	MC54HCT540	
	National	MM54HCT540	
	TI	SN54HCT540	
54HCT541SOS			
	Harris	CD54HCT541	
	Motorola	MC54HCT541	
	National	MM54HCT541	
	TI	SN54HCT541	
54HCT563SOS			
	Harris	CD54HCT563	
54HCT564SOS			
	Harris	CD54HCT564	
54HCT573SOS			
	Harris	CD54HCT573	
	Motorola	MC54HCT573A	
54HCT574SOS			
	Harris	CD54HCT574	
	Motorola	MC54HCT574A	
74HCT137	GEC Plessey	MV74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
74HCT138	GEC Plessey	MV74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(38**
74HCT139	GEC Plessey	MV74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	Philips	74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	**(38**
74HCT237	GEC Plessey	MV74HCT237	
	Harris	CD74HCT22106	
		CD74HCT237	
	Philips	74HCT237	
	TI	SN74HCT237	
74HCT238	GEC Plessey	MV74HCT238	
	Harris	CD74HCT238	
	Philips	74HCT238	
	TI	SN74HCT238	
74HCT239	GEC Plessey	MV74HCT240	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
			(Continu

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

GEC Plessey Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HCT241	GEC Plessey	MV74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
74HCT244	GEC Plessey	MV74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
74HCT245	GEC Plessey	MV74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
74HCT373	GEC Plessey	MV74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
74HCT374	GEC Plessey	MV74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
74HCT533	GEC Plessey	MV74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
74HCT534	GEC Plessey	MV74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
74HCT540	GEC Plessey	MV74HCT540	
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HCT540			(Cont'd)
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(3836)**
74HCT541	GEC Plessey	MV74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(3836)**
74HCT563	GEC Plessey	MV74HCT563	
	Harris	CD74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	**(3836)**
74HCT564	GEC Plessey	MV74HCT564	
	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	**(3836)**
74HCT573	GEC Plessey	MV74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
74HCT574	GEC Plessey	MV74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**

Gennum

Manufacturer Device	Replacement Source	Device	IC Master Page
GC810		MCELM10	
	LinearTech	LM10	
	National	LM10	
GX434	Burr-Brown	MPC100	
LS2842	Unitrode	UC2842	
27C128	TI	TMS27C128	
		TMS27PC128	
27C256	TI	TMS27C256	
		TMS27PC256	
27C512	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
27256	TI	TMS27C256	
		TMS27PC256	

GoldStar Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
CG76C28	Hyundai	HY6116A	
GD4001	Harris	CD4001	
	Motorola	MC14001	
	National	CD4001	
	TI	TP4001	
	Toshiba	TC4001	
GD40014	Harris	CD40106	
	Motorola	MC14584	
	National	MM74C14	
	Toshiba	TC4584	
GD4002	Harris	CD4002	
	Motorola	MC14002	
	National	CD4002	
	TI	TP4002	
	Toshiba	TC4002	
GD4006	Harris	CD4006	
	Motorola	MC14006	
	National	CD4006	
	Toshiba	TC4006	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD4007	Harris	CD4007	
	Motorola	MC14007	
	National	CD4007	
	Toshiba	TC4007	
GD4008	Harris	CD4008	
	Motorola	MC14008	
	National	CD4008	
	TI	TP4008	
	Toshiba	TC4008	
GD40085	Motorola	MC14585	
	National	MM74C85	
GD40097	Motorola	MC14503	
	National	MM80C97	
GD40098	National	MM80C98	
GD4011	Harris	CD4011	
	Motorola	MC14011	
	National	CD4011	
	TI	TP4011	
	Toshiba	TC4011	
GD4012	Harris	CD4012	
	Motorola	MC14012	
	National	CD4012	
	TI	TP4012	
	Toshiba	TC4012	
GD4013	Harris	CD4013	
	Motorola	MC14013	
	National	CD4013	
	TI	TP4013	
	Toshiba	TC4013	
GD40139	Harris	CD40193	
	National	MM74C193	
	Toshiba	TC40193	
GD4014	Harris	CD4014	
	Motorola	MC14014	
	National	CD4014	
	TI	TP4014	
	Toshiba	TC4014	
GD4015	Harris	CD4015	
	Motorola	MC14015	
	National	CD4015	
	TI	TP4015	
	Toshiba	TC4015	
GD4016	Harris	CD4016	
	Motorola	MC14016	
	National	CD4016	
	TI	TP4016	
	Toshiba	TC4016	
GD40160	Motorola	MC14160	
	National	MM74C160	
	TI	TP4360	
	Toshiba	TC40160	
GD40161	Motorola	MC14161	
	National	MM74C161	
	TI	TP4361	
	Toshiba	TC40161	
GD40163	Motorola	MC14163	
	National	MM74C163	
	TI	TP4363	
	Toshiba	TC40163	
GD4017	Harris	CD4017	
	Motorola	MC14017	
	National	CD4017	
	Toshiba	TC4017	
GD40174	Motorola	MC14174	
	National	MM74C174	
	Toshiba	TC40174	
GD40175	Motorola	MC14175	
	National	MM74C175	
	Toshiba	TC40175	
GD4018	Harris	CD4018	
	Motorola	MC14018	
	National	CD4018	
	TI	TP4018	
	Toshiba	TC4018	
GD4019	Harris	CD4019	
	National	CD4019	
	TI	TP4019	
	Toshiba	TC4019	
GD40192	Harris	CD40192	
	National	MM74C192	
	Toshiba	TC40192	
GD40194	Harris	CD4019	
	Motorola	MC14194	
	Toshiba	TC40194	
GD4020	Harris	CD4020	
	Motorola	MC14020	
	National	CD4020	
	TI	TP4020	
	Toshiba	TC4020	
GD4021	Harris	CD4021	
	Motorola	MC14021	
	National	CD4021	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD4021			(Cont'd)
	TI	TP4021	
	Toshiba	TC4021	
GD4022	Harris	CD4022	
	Motorola	MC14022	
	National	CD40232	
	TI	TP4022	
	Toshiba	TC4022	
GD4023	Harris	CD4023	
	Motorola	MC14023	
	National	CD4023	
	TI	TP4023	
	Toshiba	TC4023	
GD4024	Harris	CD4024	
	Motorola	MC14024	
	National	CD4024	
	TI	TP4024	
	Toshiba	TC4024	
GD4025	Harris	CD4025	
	Motorola	MC14025	
	National	CD4025	
	TI	TP4025	
	Toshiba	TC4025	
GD4027	Harris	CD4027	
	Motorola	MC14027	
	National	CD4027	
	TI	TP4027	
	Toshiba	TC4027	
GD4028	Harris	CD4028	
	Motorola	MC14028	
	National	CD4028	
	TI	TP4028	
	Toshiba	TC4028	
GD4029	Harris	CD4029	
	National	CD4029	
	TI	TP4029	
	Toshiba	TC4029	
GD4030	Harris	CD4030	
	National	CD4030	
	TI	TP4030	
	Toshiba	TC4030	
GD4034	Harris	CD4034	
	Motorola	MC14034	
	National	CD4034	
	Toshiba	TC4034	
GD4035	Harris	CD4035	
	Motorola	MC14035	
	National	CD4035	
	TI	TP4035	
	Toshiba	TC4035	
GD4040	Harris	CD4040	
	Motorola	MC14040	
	National	CD4040	
	TI	TP4040	
	Toshiba	TC4040	
GD4041	Harris	CD4041	
	National	CD4041	
	TI	TP4041	
GD4042	Harris	CD4042	
	Motorola	MC14042	
	National	CD4042	
	TI	TP4042	
	Toshiba	TC4042	
GD4043	Harris	CD4043	
	Motorola	MC14043	
	National	CD4043	
	TI	TP4043	
	Toshiba	TC4043	
GD4044	Harris	CD4044	
	Motorola	MC14044	
	National	CD4044	
	TI	TP4044	
	Toshiba	TC4044	
GD4046	Harris	CD4046	
	Motorola	MC14046	
	National	CD4046	
GD4047	Harris	CD4047	
	National	CD4047	
	TI	TP4047	
	Toshiba	TC4047	
GD4049	Harris	CD4049	
	Motorola	MC14049	
	National	CD4049	
	TI	TP4049	
	Toshiba	TC4049	
GD4050	Harris	CD4050	
	Motorola	MC14050	
	National	CD4050	
	TI	TP4050	
	Toshiba	TC4050	
GD4051	Harris	CD4051	
	Motorola	MC14051	
	National	CD4051	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD4051			(Cont'd)
	TI	TP4051	
	Toshiba	TC4051	
GD4052	Harris	CD4052	
	Motorola	MC14052	
	National	CD4052	
	TI	TP4052	
	Toshiba	TC4052	
GD4053	Harris	CD4053	
	Motorola	MC14053	
	National	CD4053	
	TI	TP4053	
	Toshiba	TC4053	
GD4066	Harris	CD4066	
	Motorola	MC14066	
	National	CD4066	
	TI	TP4066	
	Toshiba	TC4066	
GD4067	Harris	CD4067	
GD4068	Harris	CD4068	
	Motorola	MC14068	
	TI	TP4068	
	Toshiba	TC4068	
GD4069	Harris	CD4069	
	Motorola	MC14069	
	National	CD4069	
	TI	TP4069	
	Toshiba	TC4069	
GD4070	Harris	CD4070	
	Motorola	MC14070	
	National	CD4070	
GD4071	Harris	CD4071	
	Motorola	MC14071	
	National	CD4071	
	TI	TP4071	
	Toshiba	TC4071	
GD4075	Harris	CD4075	
	Motorola	MC14075	
	National	CD4075	
	TI	TP4075	
	Toshiba	TC4075	
GD4076	Harris	CD4076	
	Motorola	MC14076	
	National	CD4076	
	Toshiba	TC4076	
GD4077	Harris	CD4077	
	Motorola	MC14077	
	Toshiba	TC4077	
GD4078	Harris	CD4078	
	Motorola	MC14078	
	TI	TP4078	
	Toshiba	TC4078	
GD4081	Harris	CD4081	
	Motorola	MC14081	
	National	CD4081	
	TI	TP4081	
	Toshiba	TC4081	
GD4085	Harris	CD4085	
	Toshiba	TC4085	
GD4086	Harris	CD4086	
	Toshiba	TC4086	
GD4093	Harris	CD4093	
	Motorola	MC14093	
	National	CD4093	
	Toshiba	TC4093	
GD4510	Harris	CD4510	
	Motorola	MC14510	
	National	CD4510	
	Toshiba	TC4510	
GD4511	Harris	CD4511	
	Motorola	MC14511	
	National	CD4511	
	TI	TP4511	
	Toshiba	TC4511	
GD4512	Motorola	MC14512	
	TI	TP4512	
	Toshiba	TC4512	
GD4514	Harris	CD4514	
	Motorola	MC14514	
	Toshiba	TC4514	
GD4516	Harris	CD4516	
	Motorola	MC14516	
	National	CD4516	
	Toshiba	TC4516	
GD4518	Harris	CD4518	
	Motorola	MC14518	
	National	CD4518	
	TI	TP4518	
	Toshiba	TC4518	
GD4520	Harris	CD4520	
	Motorola	MC14520	
	National	CD4520	
	TI	TP4520	
	Toshiba	TC4520	
GD4522	Motorola	MC14522	
	TI	TP4522	
	Toshiba	TC4522	
GD4526	Motorola	MC14526	
	TI	TP4526	
	Toshiba	TC4526	
GD4528	Harris	CD4528	
	Motorola	MC14528	
	Toshiba	TC4528	
GD4531	Motorola	MC14531	
	TI	TP4531	
	Toshiba	TC4531	
GD4532	Harris	CD4532	
	Motorola	MC14532	
	Toshiba	TC4532	
GD4539	Motorola	MC14539	
	TI	TP4539	
	Toshiba	TC4539	
GD4553	Motorola	MC14553	
GD4555	Harris	CD4555	
	Motorola	MC14555	
	Toshiba	TC4555	
GD4556	Harris	CD4556	
	Motorola	MC14556	
	Toshiba	TC4556	
GD4582	Harris	CD40182	
	Motorola	MC14582	
	TI	TP4582	
GD4721	Harris	CDP1822	
	National	MM74C920	
GD4723	National	CD4723	
GD4724	Harris	CD4099	
	National	CD4724	
GD4725	National	MM74C89	
GD4736	Harris	CDP1821	
	National	MM74C929	
GD54HCT00	Harris	CD54HCT00	
	Ideal Semi	**54HCTLS86**	**(3643)**
	Motorola	MC54HCT00A	
	National	MM54HCT00	
	Rochester	54HCT00	
GD54HCT01	GoldStar	GD54HCT02	
	Harris	CD54HCT02	
GD54HCT02	GoldStar	GD54HCT01	
	Harris	CD54HCT02	
GD54HCT03	Harris	CD54HCT03	
	National	MM54HCT03	
GD54HCT04	Harris	CD54HCT04	
	Motorola	MC54HCT04A	
	National	MM54HCT04	
	Rochester	54HCT04	
	TI	SN54HCT04	
GD54HCT05	National	MM54HCT05	
	Rochester	54HCT05	
GD54HCT08	Harris	CD54HCT08	
	Motorola	MC54HCT08A	
	National	MM54HCT08	
GD54HCT09	GoldStar	GD54HCT10	
	Harris	CD54HCT10	
GD54HCT10	GoldStar	GD54HCT09	
	Harris	CD54HCT10	
GD54HCT11	Harris	CD54HCT11	
GD54HCT125	Harris	CD54HCT123	
		CD54HCT125	
GD54HCT126	Harris	CD54HCT126	
GD54HCT132	Harris	CD54HCT132	
GD54HCT137	GEC Plessey	54HCT137SOS	
	Harris	CD54HCT137	
	TI	SN54HCT137	
GD54HCT138	GEC Plessey	54HCT138SOS	
	Harris	CD54HCT138	
	Motorola	MC54HCT138A	
	National	MM54HCT138	
	TI	SN54HCT138	
GD54HCT139	GEC Plessey	54HCT139SOS	
	Harris	CD54HCT139	
	National	MM54HCT139	
GD54HCT147	Harris	CD54HCT147	
	National	MM54HCT147	
GD54HCT148	National	MM54HCT148	
GD54HCT151	Harris	CD54HCT151	
	National	MM54HCT149	
		MM54HCT151	
GD54HCT153	Harris	CD54HCT153	
	National	MM54HCT153	
GD54HCT154	Harris	CD54HCT154	
GD54HCT155	National	MM54HCT155	
GD54HCT157	Harris	CD54HCT157	
	Motorola	MC54HCT157A	
	National	MM54HCT157	
GD54HCT158	Harris	CD54HCT158	
	Motorola	MC54HCT158A	
	National	MM54HCT158	
GD54HCT160	Harris	CD54HCT160	
GD54HCT161	Harris	CD54HCT161	
	Motorola	MC54HCT161A	
GD54HCT162	Harris	CD54HCT162	
GD54HCT163	Harris	CD54HCT163	
	Motorola	MC54HCT163A	
GD54HCT164	Harris	CD54HCT164	
	National	MM54HCT164	
GD54HCT165	Harris	CD54HCT165	
GD54HCT173	Harris	CD54HCT173	
GD54HCT174	Harris	CD54HCT174	
	Motorola	MC54HCT174A	
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GD54HCT190	Harris	CD54HCT190	
	National	54HCT190	
GD54HCT191	Harris	CD54HCT191	
	National	MM54HCT191	
GD54HCT192	Harris	CD54HCT192	
	National	MM54HCT192	
GD54HCT20	Harris	CD54HCT20	
GD54HCT21	Harris	CD54HCT21	
GD54HCT221	Harris	CD54HCT221	
GD54HCT241	GEC Plessey	54HCT241SOS	
	Harris	CD54HCT241	
	Motorola	MC54HCT241A	
	National	MM54HCT241	
	TI	SN54HCT241	
GD54HCT244	GEC Plessey	54HCT244SOS	
	Harris	CD54HCT244	
	Motorola	MC54HCT244A	
	National	MM54HCT244	
	TI	SN54HCT244	
GD54HCT245	GEC Plessey	54HCT245SOS	
	Harris	CD54HCT245	
	Motorola	MC54HCT245A	
	National	MM54HCT245	
	TI	SN54HCT245	
GD54HCT257	Harris	CD54HCT257	
	National	MM54HCT257	
♦ GD54HCT258	Harris	CD54HCT258	
	National	MM54HCT258	
GD54HCT27	Harris	CD54HCT259	
		CD54HCT27	
GD54HCT273	Harris	CD54HCT273	
	Motorola	MC54HCT273A	
	National	MM54HCT273	
	Rochester	54HCT273	
GD54HCT280	Harris	CD54HCT280	
GD54HCT299	Harris	CD54HCT299	
GD54HCT30	Harris	CD54HCT30	
GD54HCT32	Harris	CD54HCT32	
	Motorola	MC54HCT32A	
	National	MM54HCT32	
GD54HCT34	Rochester	54HCT34	
GD54HCT365	Harris	CD54HCT365	
GD54HCT366	Harris	CD54HCT366	
GD54HCT367	Harris	CD54HCT367	
GD54HCT368	Harris	CD54HCT368	
GD54HCT373	GEC Plessey	54HCT373SOS	
	Harris	CD54HCT373	
	Motorola	MC54HCT373A	
	National	MM54HCT373	
	TI	SN54HCT373	
GD54HCT374	GEC Plessey	54HCT374SOS	
	Harris	CD54HCT374	
	Motorola	MC54HCT374A	
	National	MM54HCT374	
	TI	SN54HCT374	
GD54HCT393	Harris	CD54HCT390	
		CD54HCT393	
GD54HCT42	Harris	CD54HCT4094	
		CD54HCT42	
GD54HCT51	National	MM54HCT521	
GD54HCT533	GEC Plessey	54HCT533SOS	
	Harris	CD54HCT533	
	Motorola	MC54HCT533A	
	National	MM54HCT533	
	Rochester	54HCT533	
GD54HCT534	GEC Plessey	54HCT534SOS	
	Harris	CD54HCT534	
	Motorola	MC54HCT534A	
	National	MM54HCT534	
GD54HCT58	Harris	CD54HCT583	
GD54HCT646	Harris	CD54HCT646	
GD54HCT648	Harris	CD54HCT648	
GD54HCT74	Harris	CD54HCT73	
		CD54HCT74	
	National	MM54HCT74	
	Rochester	54HCT74	
GD54HCT86	Harris	CD54HCT85	
		CD54HCT86	
GD54HC00	Harris	CD54HCT93	
		CD54HC00	
	Motorola	MC54HC00A	
	National	MM54HC00	
	TI	SN54HC00	
GD54HC01	GoldStar	GD54HC02	
	Harris	CD54HC02	
	Motorola	MC54HC02A	
	National	MM54HC02	
	TI	SN54HC02	
GD54HC02	GoldStar	GD54HC01	
	Harris	CD54HC02	
	Motorola	MC54HC02A	
	National	MM54HC02	
	TI	SN54HC02	
GD54HC03	Harris	CD54HC03	
	Motorola	MC54HC03A	
	National	MM54HC03	
	TI	SN54HC03	
GD54HC04	Harris	CD54HC04	
	Motorola	MC54HC04A	
	National	MM54HC04	
	TI	SN54HC04	
GD54HC05	National	MM54HC05	
	TI	SN54HC05	
GD54HC08	Harris	CD54HC08	
	Motorola	MC54HC08A	
	National	MM54HC08	
	TI	SN54HC08	
GD54HC09	TI	SN54HC09	
GD54HC10	Harris	CD54HC10	
	Motorola	MC54HC10	
	National	MM54HC10	
	TI	SN54HC10	
GD54HC11	Harris	CD54HC11	
	Motorola	MC54HC11	
	National	MM54HC11	
	Rochester	54HC11	
	TI	SN54HC11	
GD54HC125	Harris	CD54HC125	
	Motorola	MC54HC125A	
	National	MM54HC125	
	TI	SN54HC125	
GD54HC126	Harris	CD54HC126	
	Motorola	MC54HC126A	
	National	MM54HC126	
	TI	SN54HC126	
GD54HC132	Harris	CD54HC132	
	Motorola	MC54HC132A	
	National	MM54HC132	
	TI	SN54HC132	
GD54HC137	Harris	CD54HC137	
	Motorola	MC54HC137	
	National	MM54HC137	
	TI	SN54HC137	
GD54HC138	Harris	CD54HC138	
	Motorola	MC54HC138A	
	National	MM54HC138	
	TI	SN54HC138	
GD54HC139	Harris	CD54HC139	
	Motorola	MC54HC139A	
	National	MM54HC139	
	TI	SN54HC139	
GD54HC147	Harris	CD54HC147	
	Motorola	MC54HC147	
	National	MM54HC147	
GD54HC148	National	MM54HC148	
	TI	SN54HC148	
GD54HC151	Harris	CD54HC151	
	Motorola	MC54HC151	
	National	MM54HC149	
		MM54HC151	
	TI	SN54HC151	
GD54HC153	Harris	CD54HC153	
	Motorola	MC54HC153	
	National	MM54HC153	
	Rochester	54HC153	
	TI	SN54HC153	
GD54HC154	Harris	CD54HC154	
	Motorola	MC54HC154	
	National	MM54HC154	
GD54HC155	National	MM54HC155	
GD54HC157	Harris	CD54HC157	
	Motorola	MC54HC157A	
	National	MM54HC157	
	TI	SN54HC157	
GD54HC158	Harris	CD54HC158	
	National	MM54HC158	
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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD54HC158			(Cont'd)
	Rochester	54HC158	
	TI	SN54HC158	
GD54HC160	Harris	CD54HC160	
	Motorola	MC54HC160	
	National	MM54HC160	
	TI	SN54HC160	
GD54HC161	Harris	CD54HC161	
	Motorola	MC54HC161A	
	National	MM54HC161	
	TI	SN54HC161	
GD54HC162	Harris	CD54HC162	
	Motorola	MC54HC162	
	National	MM54HC162	
	Rochester	54HC162	
GD54HC163	Harris	CD54HC163	
	Motorola	MC54HC163A	
	National	MM54HC163	
	TI	SN54HC163	
GD54HC164	Harris	CD54HC164	
	Motorola	MC54HC164	
	National	MM54HC164	
	TI	SN54HC164	
GD54HC165	Harris	CD54HC165	
	Motorola	MC54HC165	
	National	MM54HC165	
	TI	SN54HC165	
GD54HC173	Harris	CD54HC173	
	Motorola	MC54HC173	
	National	MM54HC173	
	Rochester	54HC173	
	TI	SN54HC173	
GD54HC174	Harris	CD54HC174	
	Motorola	MC54HC174A	
	National	MM54HC174	
	TI	SN54HC174	
GD54HC175	Harris	CD54HC175	
	Motorola	MC54HC175	
	National	MM54HC175	
	TI	SN54HC175	
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	TI	SN54HC190	
GD54HC191	Harris	CD54HC191	
	National	MM54HC191	
	TI	SN54HC191	
GD54HC192	Harris	CD54HC192	
	National	MM54HC192	
	TI	SN54HC192	
GD54HC20	Harris	CD54HC20	
	Motorola	MC54HC20	
	National	MM54HC20	
	TI	SN54HC20	
GD54HC21	Harris	CD54HC21	
	TI	SN54HC21	
GD54HC221	Harris	CD54HC221	
	National	MM54HC221A	
GD54HC241	Harris	CD54HC241	
	Motorola	MC54HC241A	
	National	MM54HC241	
	Rochester	54HC241	
	TI	SN54HC241	
GD54HC244	Harris	CD54HC244	
	Motorola	MC54HC244A	
	National	MM54HC244	
	TI	SN54HC244	
GD54HC245	Harris	CD54HC245	
	Motorola	MC54HC245A	
	National	MM54HC245	
		MM54HC245A	
	TI	SN54HC245	
GD54HC257	Harris	CD54HC257	
	Motorola	MC54HC257	
	National	MM54HC257	
	TI	SN54HC257	
◆ GD54HC258	Harris	CD54HC258	
	National	MM54HC258	
	TI	SN54HC258	
GD54HC27	Harris	CD54HC27	
	Motorola	MC54HC27	
	National	MM54HC27	
	TI	SN54HC27	
GD54HC273	Harris	CD54HC273	
	Motorola	MC54HC273A	
	National	MM54HC273	
	TI	SN54HC273	
GD54HC280	Harris	CD54HC280	
	Motorola	MC54HC280	
	National	MM54HC280	
	TI	SN54HC280	
GD54HC299	Harris	CD54HC299	
	Motorola	MC54HC299	
	National	MM54HC299	
GD54HC30	Harris	CD54HC30	
	Motorola	MC54HC30	
	National	MM54HC30	
	TI	SN54HC30	
GD54HC32	Harris	CD54HC32	
	Motorola	MC54HC32A	
	National	MM54HC32	
	TI	SN54HC32	
GD54HC34	National	MM54HC34	
GD54HC365	Harris	CD54HC365	
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	National	MM54HC365	
	TI	SN54HC365	
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	Motorola	MC54HC366	
	National	MM54HC366	
	Rochester	54HC366	
	TI	SN54HC366	
GD54HC367	Harris	CD54HC367	
	Motorola	MC54HC367	
	National	MM54HC367	
	TI	SN54HC367	
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	Motorola	MC54HC368	
	National	MM54HC368	
	Rochester	54HC368	
	TI	SN54HC368	
GD54HC373	Harris	CD54HC373	
	Motorola	MC54HC373A	
	National	MM54HC373	
	TI	SN54HC373	
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	National	MM54HC374	
	TI	SN54HC374	
GD54HC393	Harris	CD54HC393	
	Motorola	MC54HC393	
	National	MM54HC393	
	TI	SN54HC393	
GD54HC42	Harris	CD54HC4094	
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	Motorola	MC54HC42	
	National	MM54HC42	
	TI	SN54HC42	
GD54HC51	Motorola	MC54HC51	
	National	MM54HC51	
	TI	SN54HC51	
GD54HC533	Harris	CD54HC533	
	Motorola	MC54HC533A	
	National	MM54HC521	
		MM54HC533	
	TI	SN54HC533	
GD54HC534	Harris	CD54HC534	
	Motorola	MC54HC534A	
	National	MM54HC534	
	TI	SN54HC534	
GD54HC58	Motorola	MC54HC58	
	National	MM54HC58	
GD54HC646	Harris	CD54HC646	
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	National	MM54HC646	
	Rochester	54HC646	
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	Motorola	MC54HC648	
	National	MM54HC648	
GD54HC74	Harris	CD54HC74	
	Motorola	MC54HC74A	
	National	MM54HC74	
	TI	SN54HC74	
GD54HC86	Harris	CD54HC86	
	Motorola	MC54HC86	
	National	MM54HC86	
	TI	SN54HC86	
GD54LS00	Lansdale	SL54LS00	
	Motorola	SN54LS00	
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	TI	SN54LS00	
GD54LS02	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
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	SGS-Thomson		
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		54LS02	
	TI	SN54LS02	
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	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson		
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		54LS04	
	TI	SN54LS04	
GD54LS05	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
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	TI	SN54LS05	
GD54LS06	GoldStar	GD54LS07	
GD54LS07	GoldStar	GD54LS06	
GD54LS08	Lansdale	SL54LS08	
	Motorola	SN54LS08	
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	TI	SN54LS08	
GD54LS09	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
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	SGS-Thomson		
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		54LS09	
	TI	SN54LS09	
GD54LS10	Lansdale	SL54LS10	
	Motorola	SN54LS10	
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	TI	SN54LS10	
GD54LS107A	Lansdale	SL54LS107	
	Motorola	SN54LS107A	
	National	DM54LS107A	
	TI	SN54LS107A	
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	TI	SN54LS109A	
GD54LS11	Lansdale	SL54LS11	
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	SGS-Thomson		
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GD54LS112	Lansdale	SL54LS112	
	Motorola	SN54LS112A	
	National	54LS112	
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	Lansdale	SL54LS125	
		SL54LS125A	
	Motorola	SN54LS125A	
	National	DM54LS125A	
		54LS125A	
	SGS-Thomson		
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	TI	SN54LS125A	
GD54LS125A	GoldStar	GD54LS125	
	Lansdale	SL54LS125	
		SL54LS125A	
	Motorola	SN54LS125A	
	National	DM54LS125A	
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	SGS-Thomson		
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	TI	SN54LS125A	
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	Motorola	SN54LS132	
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	SGS-Thomson		
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	TI	SN54LS132	
GD54LS138	Motorola	SN54LS138	
	National	DM54LS138	
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GD54LS139	Lansdale	54LS139	
	Motorola	SN54LS139	
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	SGS-Thomson		
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	TI	SN54LS139A	
GD54LS14	Lansdale	SL54LS14	
	Motorola	SN54LS14	
	National	54LS14	
	SGS-Thomson		
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	TI	SN54LS14	
GD54LS145	Motorola	SN54LS145	
	TI	SN54LS145	
GD54LS148	Motorola	SN54LS148	
	TI	SN54LS148	
GD54LS15	Motorola	SN54LS15	
	National	54LS15	
	SGS-Thomson		
		T54LS15	
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	TI	SN54LS15	
GD54LS151	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
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	SGS-Thomson		
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	TI	SN54LS151	
GD54LS153	Lansdale	SL54LS153	
	Motorola	SN54LS153	
	National	DM54LS153	
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	National	DM54LS154	
GD54LS155	Lansdale	SL54LS155	
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	SGS-Thomson		
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GD54LS157	Lansdale	SL54LS157	
	Motorola	SN54LS157	
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GD54LS158	Lansdale	SL54LS158	
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GD54LS161A	Motorola	SN54LS161A	
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	TI	SN54LS161A	
GD54LS163A	Lansdale	SL54LS163A	
	Motorola	SN54LS163A	
	National	DM54LS163A	
		54LS163A	
	TI	SN54LS163A	
GD54LS164	Lansdale	SL54LS164	
	Motorola	SN54LS164	
	National	DM54LS164	
		54LS164	
	TI	SN54LS164	
GD54LS165	Motorola	SN54LS165	
	National	54LS165	
	Rochester	54LS165	
	TI	SN54LS165A	
GD54LS166	Motorola	SN54LS166	
	TI	SN54LS166A	
GD54LS174	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
		54LS174	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
GD54LS174			(Cont'd)
	SGS-Thomson		
		T54LS174	
		54LS174	
	TI	SN54LS174	
GD54LS175	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
		54LS175	
	SGS-Thomson		
		T54LS175	
		54LS175	
	TI	SN54LS175	
GD54LS191	Lansdale	SL54LS191	
	Motorola	SN54LS191	
	National	DM54LS191	
	TI	SN54LS191	
GD54LS193	Motorola	SN54LS193	
	National	DM54LS193	
		54LS193	
	SGS-Thomson		
		T54LS193	
		54LS193	
	TI	SN54LS193	
GD54LS194A	Lansdale	SL54LS194A	
	Motorola	SN54LS194A	
	National	54LS194A	
	SGS-Thomson		
		T54LS194A	
	TI	SN54LS194A	
GD54LS195A	Motorola	SN54LS195A	
	National	54LS195	
	SGS-Thomson		
		T54LS195A	
		54LS195A	
	TI	SN54LS195A	
GD54LS20	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
		54LS20	
	SGS-Thomson		
		T54LS20	
		54LS20	
	TI	SN54LS20	
GD54LS21	Lansdale	SL54LS21	
	Motorola	SN54LS21	
	National	DM54LS21	
		54LS21	
	TI	SN54LS21	
GD54LS221	Motorola	SN54LS221	
	National	DM54LS221	
	TI	SN54LS221	
GD54LS240	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
		54LS240	
	SGS-Thomson		
		T54LS240	
		54LS240	
	TI	SN54LS240	
GD54LS241	Lansdale	SL54LS241	
	Motorola	SN54LS241	
	National	DM54LS241	
		54LS241	
	TI	SN54LS241	
GD54LS242	Lansdale	SL54LS242	
	Motorola	SN54LS242	
	National	DM54LS242	
	TI	SN54LS242	
GD54LS243	Lansdale	SL54LS243	
	Motorola	SN54LS243	
	National	DM54LS243	
	TI	SN54LS243	
GD54LS244	Lansdale	SL54LS244	
	Motorola	SN54LS244	
	National	54LS244	
	TI	SN54LS244	
GD54LS245	Lansdale	SL54LS245	
	Motorola	SN54LS245	
	National	DM54LS245	
		54LS245	
	TI	SN54LS245	
GD54LS251	Lansdale	SL54LS251	
	Motorola	SN54LS251	
	National	DM54LS251	
	TI	SN54LS251	
GD54LS257A	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
	National	DM54LS257B	
		54LS257A	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD54LS257A			(Cont'd)
	TI	SN54LS257B	
GD54LS258B	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson		
		T54LS258A	
		54LS258	
	TI	SN54LS258B	
GD54LS259	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
		54LS259	
	SGS-Thomson		
		T54LS259	
		54LS259	
	TI	SN54LS259B	
GD54LS26	Lansdale	SL54LS26	
	Motorola	SN54LS26	
	National	DM54LS26	
		54LS26	
	TI	SN54LS26	
GD54LS27	Motorola	SN54LS27	
	National	DM54LS27	
		54LS27	
	SGS-Thomson		
		T54LS27	
		54LS27	
	TI	SN54LS27	
GD54LS273	Lansdale	SL54LS273	
	Motorola	SN54LS273	
	National	54LS273	
	Philips	54LS273	
	SGS-Thomson		
		T54LS273	
		54LS273	
	TI	SN54LS273	
GD54LS280	Motorola	SN54LS280	
	SGS-Thomson		
		T54LS280	
		54LS280	
	TI	SN54LS280	
GD54LS283	Lansdale	SL54LS283	
	Motorola	SN54LS283	
	National	DM54LS283	
		54LS283	
	SGS-Thomson		
		54LS283	
	TI	SN54LS283	
GD54LS298	Lansdale	SL54LS298	
	Motorola	SN54LS298	
	National	54LS298	
	SGS-Thomson		
		54LS298	
	TI	SN54LS298	
GD54LS299	Motorola	SN54LS299	
	National	54LS299	
	TI	SN54LS299	
GD54LS30	Lansdale	SL54LS30	
	Motorola	SN54LS30	
	National	DM54LS30	
		54LS30	
	SGS-Thomson		
		T54LS30	
		54LS30	
	TI	SN54LS30	
GD54LS32	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
		54LS32	
	SGS-Thomson		
		T54LS32	
		54LS32	
	TI	SN54LS32	
GD54LS322	Motorola	SN54LS322A	
	National	54LS322	
	TI	SN54LS322A	
GD54LS366A	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
		54LS366	
	SGS-Thomson		
		T54LS366A	
		54LS366	
	TI	SN54LS366A	
GD54LS367A	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
		54LS367	
	SGS-Thomson		
		T54LS367A	
		54LS367	

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Manufacturer Device	Replacement Source	Device	IC Master Page
GD54LS367A			(Cont'd)
	TI	SN54LS367A	
GD54LS368A	Motorola	SN54LS368A	
	National	DM54LS368A	
		54LS368	
	SGS-Thomson		
		T54LS368A	
		54LS368	
	TI	SN54LS368A	
GD54LS373	Lansdale	SL54LS373	
	Motorola	SN54LS373	
	National	DM54LS373	
	SGS-Thomson		
		T54LS373	
		54LS373	
	TI	SN54LS373	
GD54LS374	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
		54LS374	
	SGS-Thomson		
		T54LS374	
		54LS374	
	TI	SN54LS374	
GD54LS377	Lansdale	SL54LS377	
	Motorola	SN54LS377	
	National	54LS377	
	SGS-Thomson		
		T54LS377	
		54LS377	
	TI	SN54LS377	
GD54LS38	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
		54LS38	
	SGS-Thomson		
		T54LS38	
		54LS38	
	TI	SN54LS38	
GD54LS390	Lansdale	SL54LS390	
	Motorola	SN54LS390	
	SGS-Thomson		
		T54LS390	
		54LS390	
	TI	SN54LS390	
GD54LS393	Lansdale	SL54LS393	
	Motorola	SN54LS393	
	SGS-Thomson		
		T54LS393	
	TI	SN54LS393	
GD54LS395	**Lansdale**	**SL54LS395A**	(3674)
	SGS-Thomson		
		T54LS395	
	TI	SN54LS395A	
GD54LS42	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	DM54LS42	
		54LS42	
	SGS-Thomson		
		T54LS42	
		54LS42	
	TI	SN54LS42	
GD54LS51	Lansdale	SL54LS51	
	Motorola	SN54LS51	
	National	54LS503	
		54LS51	
	TI	SN54LS51	
GD54LS55	Motorola	SN54LS55	
	National	54LS55	
	SGS-Thomson		
		T54LS55	
		54LS55	
GD54LS590	Motorola	SN54LS569A	
	TI	SN54LS590	
GD54LS640	GoldStar	GD54LS640-1	
	Lansdale	**SL54LS640**	(3674)
	Motorola	SN54LS640	
	TI	SN54LS640	
GD54LS640-1	GoldStar	GD54LS640	
	Lansdale	**SL54LS640**	(3674)
	Motorola	SN54LS640	
	TI	SN54LS640	
GD54LS670	**Lansdale**	**SL54LS670**	(3674)
	Motorola	SN54LS670	
	National	DM54LS670	
		54LS670	
	SGS-Thomson		
		54LS670	
	TI	SN54LS670	
GD54LS688	Motorola	SN54LS688	
	TI	SN54LS688	

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Manufacturer Device	Replacement Source	Device	IC Master Page
GD54LS73A	Lansdale	SL54LS73	
	Motorola	SN54LS73A	
	National	DM54LS73A	
	TI	SN54LS73A	
GD54LS74A	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
		54LS74	
	SGS-Thomson		
		T54LS74A	
		54LS74	
	TI	SN54LS74A	
GD54LS85	Lansdale	SL54LS85	
	Motorola	SN54LS848	
		SN54LS85	
	National	DM54LS85	
		54LS85	
	TI	SN54LS85	
GD54LS86	Lansdale	SL54LS86	
	Motorola	SN54LS86	
	National	DM54LS86	
	TI	SN54LS86A	
GD54LS90	Lansdale	SL54LS90	
	Motorola	SN54LS90	
	TI	SN54LS90	
GD54LS92	Lansdale	SL54LS92	
	Motorola	SN54LS92	
	TI	SN54LS92	
GD54LS93	Lansdale	SL54LS93	
	Motorola	SN54LS93	
	SGS-Thomson		
		T54LS93	
		54LS93	
	TI	SN54LS93	
GD54LS95B	Lansdale	SL54LS95B	
	Motorola	SN54LS95B	
	National	54LS95B	
	TI	SN54LS95B	
GD54S00	**Lansdale**	**SL54S00**	(3674)
	National	DM54S00	
	Rochester	54S00	
	TI	SN54S00	
GD54S02	**Lansdale**	**SL54S02**	(3674)
	National	DM54S02	
	Rochester	54S02	
	TI	SN54S02	
GD54S04	**Lansdale**	**SL54S04**	(3674)
	National	DM54S04	
	Rochester	54S04	
	TI	SN54S04	
GD54S05	**Lansdale**	**SL54S05**	(3674)
	TI	SN54S05	
GD54S08	**Lansdale**	**SL54S08**	(3674)
	National	DM54S08	
	Rochester	54S08	
	TI	SN54S08	
GD54S10	**Lansdale**	**SL54S10**	(3674)
	National	DM54S10	
	Rochester	54S10	
	TI	SN54S10	
GD54S112	**Lansdale**	**SL54S112**	(3674)
	National	DM54S112	
	Rochester	54S112	
	TI	SN54S112	
GD54S133	**Lansdale**	**SL54S133**	(3674)
	National	DM54S133	
	Rochester	54S133	
	TI	SN54S133	
GD54S138	**Lansdale**	**SL54S138**	(3674)
	National	DM54S138	
	Rochester	54S138	
	TI	SN54S138	
GD54S139	**Lansdale**	**SL54S139**	(3674
	National	DM54S139	
	Rochester	54S139	
	TI	SN54S139	
GD54S153	**Lansdale**	**SL54S153**	(3674
	National	DM54S153	
	Rochester	54S153	
	TI	SN54S153	
GD54S157	**Lansdale**	**SL54S157**	(3674
	National	DM54S157	
	Rochester	54S157	
	TI	SN54S157	
GD54S158	**Lansdale**	**SL54S158**	(3674
	National	DM54S158	
	Rochester	54S158	
	TI	SN54S158	
GD54S163A	TI	SN54S162	
		SN54S163	
GD54S169A	TI	SN54S169	
GD54S174	**Lansdale**	**SL54S174**	(3674
	National	DM54S174	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD54S174			(Cont'd)
	Rochester	54S174	
	TI	SN54S174	
GD54S175	**Lansdale**	**SL54S175**	**(3674)**
	National	DM54S175	
	Rochester	54S175	
	TI	SN54S175	
GD54S20	**Lansdale**	**SL54S20**	**(3674)**
	National	DM54S20	
	Rochester	54S20	
	TI	SN54S20	
GD54S240	**Lansdale**	**SL54S240**	**(3674)**
	National	DM54S240	
	TI	SN54S240	
GD54S241	**Lansdale**	**SL54S241**	**(3674)**
	National	DM54S241	
	TI	SN54S241	
GD54S244	**Lansdale**	**SL54S244**	**(3674)**
	TI	SN54S244	
GD54S251	**Lansdale**	**SL54S251**	**(3674)**
	National	DM54S251	
	Rochester	54S251	
	TI	SN54S251	
GD54S257	**Lansdale**	**SL54S257**	**(3674)**
	National	DM54S257	
	Rochester	54S257	
	TI	SN54S257	
GD54S280	**Lansdale**	**SL54S280**	**(3674)**
	National	DM54S280	
	TI	SN54S280	
GD54S30	National	DM54S30	
	Rochester	54S30	
	TI	SN54S30	
GD54S32	**Lansdale**	**SL54S32**	**(3674)**
	National	DM54S32	
	TI	SN54S32	
GD54S374	**Lansdale**	**SL54S374**	**(3674)**
	Rochester	54S374	
	TI	SN54S374	
GD54S51	**Lansdale**	**SL54S51**	**(3674)**
	Rochester	54S51	
	TI	SN54S51	
GD54S64	**Lansdale**	**SL54S64**	**(3674)**
	National	DM54S64	
	TI	SN54S64	
GD54S74	**Lansdale**	**SL54S74**	**(3674)**
	Rochester	54S74	
	TI	SN54S74	
GD54S85	**Lansdale**	**SL54S85**	**(3674)**
	TI	SN54S85	
GD54S86	**Lansdale**	**SL54S86**	**(3674)**
	TI	SN54S86	
GD74HCT00	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	Philips	74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
GD74HCT01	GoldStar	GD74HCT02	
	Harris	CD74HCT02	
	Philips	74HCT02	
	TI	SN74HCT02	
	Toshiba	**TC74HCT02A**	**(3836)**
GD74HCT02	GoldStar	GD74HCT01	
	Harris	CD74HCT02	
	Philips	74HCT02	
	TI	SN74HCT02	
	Toshiba	**TC74HCT02A**	**(3836)**
GD74HCT03	Harris	CD74HCT03	
	National	MM74HCT03	
	Philips	74HCT03	
GD74HCT04	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	Philips	74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
GD74HCT08	Harris	CD74HCT08	
	Motorola	MC74HCT08A	
	National	MM74HCT08	
	Philips	74HCT08	
	TI	SN74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
GD74HCT09	GoldStar	GD74HCT10	
	Harris	CD74HCT10	
	Philips	74HCT10	
GD74HCT10	GoldStar	GD74HCT09	
	Harris	CD74HCT10	
	Philips	74HCT10	
GD74HCT11	Harris	CD74HCT11	
	Philips	74HCT11	
GD74HCT125	Harris	CD74HCT125	
	Philips	74HCT125	
GD74HCT126	Harris	CD74HCT126	
	Philips	74HCT126	
GD74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
GD74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
GD74HCT139	GEC Plessey	MV74HCT139	
		74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	Philips	74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	**(3836)**
GD74HCT147	Harris	CD74HCT147	
	National	MM74HCT147	
	Philips	74HCT147	
GD74HCT148	National	MM74HCT148	
GD74HCT151	Harris	CD74HCT151	
	National	MM74HCT149	
		MM74HCT151	
	Philips	74HCT151	
GD74HCT153	Harris	CD74HCT153	
	National	MM74HCT153	
	Philips	74HCT153	
GD74HCT154	Harris	CD74HCT154	
	Philips	74HCT154	
GD74HCT155	National	MM74HCT155	
GD74HCT157	Harris	CD74HCT157	
	Motorola	MC74HCT157A	
	National	MM74HCT157	
	Philips	74HCT157	
	SGS-Thomson	M74HCT157	
	Toshiba	**TC74HCT157A**	**(3836)**
GD74HCT158	Harris	CD74HCT158	
	Motorola	MC74HCT158A	
	National	MM74HCT158	
	Philips	74HCT158	
	SGS-Thomson	M74HCT158	
	Toshiba	**TC74HCT158A**	**(3836)**
GD74HCT160	Harris	CD74HCT160	
	Philips	74HCT160	
GD74HCT161	Harris	CD74HCT161	
	Motorola	MC74HCT161A	
	Philips	74HCT161	
GD74HCT162	Harris	CD74HCT162	
	Philips	74HCT162	
GD74HCT163	Harris	CD74HCT163	
	Motorola	MC74HCT163A	
	Philips	74HCT163	
GD74HCT165	Harris	CD74HCT165	
	Philips	74HCT165	
GD74HCT173	Harris	CD74HCT173	
	Philips	74HCT173	
GD74HCT174	Harris	CD74HCT174	
	Motorola	MC74HCT174A	
	Philips	74HCT174	
	Toshiba	TC74HCT174A	
GD74HCT175	Harris	CD74HCT175	
	Philips	74HCT175	
GD74HCT190	Harris	CD74HCT190	
	National	74HCT190	
	Philips	74HCT190	
GD74HCT191	Harris	CD74HCT191	
	National	MM74HCT191	
	Philips	74HCT191	
GD74HCT192	Harris	CD74HCT192	
	National	MM74HCT192	
	Philips	74HCT192	
GD74HCT20	Harris	CD74HCT20	
	Philips	74HCT20	
GD74HCT21	Harris	CD74HCT21	
	Philips	74HCT21	
GD74HCT221	Harris	CD74HCT221	
	Philips	74HCT221	
GD74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
GD74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
GD74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
GD74HCT257	Harris	CD74HCT257	
	National	MM74HCT257	
	Philips	74HCT257	
	SGS-Thomson	M74HCT257	
	Toshiba	**TC74HCT257A**	**(3836)**
◆ GD74HCT258	Harris	CD74HCT258	
	National	MM74HCT258	
	Philips	74HCT258	
	SGS-Thomson	M74HCT258	
	Toshiba	**TC74HCT258A**	**(3836)**
GD74HCT27	Harris	CD74HCT27	
	Philips	74HCT27	
GD74HCT273	Harris	CD74HCT273	
	Mitsubishi	M74HCT273-1	
	Motorola	MC74HCT273A	
	National	MM74HCT273	
	Philips	74HCT273	
	Toshiba	**TC74HCT273A**	**(3836)**
GD74HCT280	Harris	CD74HCT280	
	Philips	74HCT280	
GD74HCT299	Harris	CD74HCT299	
	Philips	74HCT299	
GD74HCT30	Harris	CD74HCT30	
	Philips	74HCT30	
GD74HCT32	Harris	CD74HCT32	
	Motorola	MC74HCT32A	
	National	MM74HCT32	
	Philips	74HCT32	
	TI	SN74HCT32	
	Toshiba	**TC74HCT32A**	**(3836)**
GD74HCT34	National	MM74HCT34	
GD74HCT365	Harris	CD74HCT365	
	Philips	74HCT365	
GD74HCT366	Harris	CD74HCT366	
	Philips	74HCT366	
GD74HCT367	Harris	CD74HCT367	
	Philips	74HCT367	
GD74HCT368	Harris	CD74HCT368	
	Philips	74HCT368	
GD74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
GD74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
GD74HCT393	Harris	CD74HCT393	
	Philips	74HCT393	
GD74HCT42	Harris	CD74HCT42	
	Philips	74HCT42	
GD74HCT51	National	MM74HCT521	
GD74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
GD74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
GD74HCT58	Harris	CD74HCT583	
	Philips	74HCT583	
GD74HCT646	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
GD74HCT648	Harris	CD74HCT648	
	Philips	74HCT648	
	SGS-Thomson	M74HCT648	
	TI	SN74HCT648	
	Toshiba	**TC74HCT648A**	**(3836)**
GD74HCT74	Harris	CD74HCT74	
	Motorola	MC74HCT74A	
	National	MM74HCT74	
	Philips	74HCT74	
	SGS-Thomson	M74HCT74	
	TI	SN74HCT74	
	Toshiba	**TC74HCT74A**	**(3836)**
GD74HCT86	Harris	CD74HCT86	
	Philips	74HCT86	
	SGS-Thomson	M74HCT86	
	Toshiba	**TC74HCT86A**	**(3836)**
GD74HC00	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD74HC00			(Cont'd)
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
GD74HC01	TI	SN74HC01	
GD74HC02	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
GD74HC03	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
GD74HC04	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
GD74HC05	National	MM74HC05	
	TI	SN74HC05	
	Toshiba	**TC74HC05A**	**(3836)**
GD74HC08	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
GD74HC09	Mitsubishi	M74HC09	
	TI	SN74HC09	
	Toshiba	**TC74HC09A**	**(3836)**
GD74HC11	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
GD74HC125	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
GD74HC126	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
GD74HC132	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
GD74HC137	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
GD74HC138	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
			(Continued)
GD74HC138			(Cont'd)
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
GD74HC139	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
GD74HC147	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
GD74HC148	National	MM74HC148	
	SGS-Thomson	M74HC148	
	TI	SN74HC148	
	Toshiba	**TC74HC148A**	**(3836)**
GD74HC151	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
GD74HC153	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
GD74HC154	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
GD74HC155	Mitsubishi	M74HC155	
	National	MM74HC155	
	SGS-Thomson	M74HC155	
	Toshiba	**TC74HC155A**	**(3836)**
GD74HC157	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
GD74HC158	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
GD74HC160	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
			(Continued)
GD74HC160			(Cont'd)
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
GD74HC161	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
GD74HC162	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
GD74HC163	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
GD74HC164	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
GD74HC165	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
GD74HC173	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
GD74HC174	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
GD74HC175	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
GD74HC190	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
			(Continued)
GD74HC190			(Cont'd)
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
GD74HC191	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
GD74HC192	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836**
	Universal	US74HC192	
GD74HC20	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836**
	Universal	US74HC20	
GD74HC21	Harris	CD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	**(3836**
	Universal	US74HC21	
GD74HC221	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
	Toshiba	**TC74HC221A**	**(383**
	Universal	US74HC221	
GD74HC240	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(383**
GD74HC241	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(383**
GD74HC244	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(383**
GD74HC245	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD74HC245 (Cont'd)			
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
GD74HC257	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
GD74HC258	Harris	CD74HC258	
	National	MM74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
GD74HC27	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
GD74HC273	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
GD74HC280	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
D74HC299	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
D74HC30	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
D74HC32	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
D74HC34	National	MM74HC34	
D74HC365	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
D74HC366	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
			(Continued)
GD74HC366 (Cont'd)			
	Philips	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
GD74HC367	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
GD74HC368	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
GD74HC373	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
GD74HC374	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
GD74HC393	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
GD74HC42	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
GD74HC51	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
GD74HC533	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
GD74HC534	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
			(Continued)
GD74HC58	Motorola	MC74HC58	
	National	MM74HC58	
GD74HC646	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
GD74HC648	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
◆ GD74HC670	Harris	CD74HC670	
	Motorola	MC74HC670	
	Philips	74HC670	
	SGS-Thomson	M74HC670	
	Toshiba	**TC74HC670A**	**(3836)**
GD74HC74	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
GD74HC86	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
GD74LS00	**Lansdale**	**SL74LS00**	**(3674)**
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
	TI	SN74LS00	
GD74LS02	**Lansdale**	**SL74LS02**	**(3674)**
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
	SGS-Thomson	T74LS02	
		74LS02	
	TI	SN74LS02	
GD74LS04	**Lansdale**	**SL74LS04**	**(3674)**
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
	TI	SN74LS04	
GD74LS05	**Lansdale**	**SL74LS05**	**(3674)**
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
	TI	SN74LS05	
GD74LS06	GoldStar	GD74LS07	
GD74LS07	GoldStar	GD74LS06	
GD74LS08	**Lansdale**	**SL74LS08**	**(3674)**
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
	TI	SN74LS08	
GD74LS09	**Lansdale**	**SL74LS09**	**(3674)**
	Motorola	SN74LS09	
			(Continued)
GD74LS09 (Cont'd)			
	National	DM74LS09	
		74LS09	
	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
	TI	SN74LS09	
GD74LS10	**Lansdale**	**SL74LS10**	**(3674)**
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
	TI	SN74LS10	
GD74LS107A	**Lansdale**	**SL74LS107**	**(3674)**
	Motorola	SN74LS107A	
	National	DM74LS107A	
	TI	SN74LS107A	
GD74LS109A	**Lansdale**	**SL74LS109**	**(3674)**
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
GD74LS11	**Lansdale**	**SL74LS11**	**(3674)**
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
	TI	SN74LS11	
GD74LS112	**Lansdale**	**SL74LS112**	**(3674)**
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
GD74LS123	Motorola	SN74LS123	
	National	DM74LS123	
	TI	SN74LS123	
GD74LS125	GoldStar	GD74LS125A	
	Lansdale	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson	T74LS125A	
		74LS125A	
	TI	SN74LS125A	
GD74LS125A	GoldStar	GD74LS125	
	Lansdale	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson	T74LS125A	
		74LS125A	
	TI	SN74LS125A	
GD74LS132	**Lansdale**	**SL74LS132**	**(3674)**
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
	SGS-Thomson	T74LS132	
		74LS132	
	TI	SN74LS132	
GD74LS138	**Lansdale**	**SL74LS138**	**(3674)**
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
	SGS-Thomson	T74LS138	
		74LS138	
	TI	SN74LS138	
GD74LS139	**Lansdale**	**SL74LS139**	**(3674)**
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
	SGS-Thomson	T74LS139	
		74LS139	
	TI	SN74LS139A	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
GD74LS14	**Lansdale**	**SL74LS14**	**(3674)**
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
	SGS-Thomson		
		T74LS14	
		74LS14	
	TI	SN74LS14	
GD74LS145	Motorola	SN74LS145	
	TI	SN74LS145	
GD74LS148	Motorola	SN74LS148	
	SGS-Thomson		
		T74LS148	
	TI	SN74LS148	
GD74LS15	Motorola	SN74LS15	
	National	74LS15	
	SGS-Thomson		
		T74LS15	
		74LS15	
	TI	SN74LS15	
GD74LS151	**Lansdale**	**SL74LS151**	**(3674)**
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
	SGS-Thomson		
		T74LS151	
		74LS151	
	TI	SN74LS151	
GD74LS153	**Lansdale**	**SL74LS153**	**(3674)**
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
	SGS-Thomson		
		T74LS153	
		74LS153	
	TI	SN74LS153	
GD74LS154	National	DM74LS154	
GD74LS155	**Lansdale**	**SL74LS155**	**(3674)**
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
	SGS-Thomson		
		T74LS155	
		74LS155	
	TI	SN74LS155A	
GD74LS157	**Lansdale**	**SL74LS157**	**(3674)**
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
	SGS-Thomson		
		T74LS157	
		74LS157	
	TI	SN74LS157	
GD74LS158	**Lansdale**	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
	Rochester	74LS158	
	SGS-Thomson		
		T74LS158	
		74LS158	
	TI	SN74LS158	
GD74LS161A	**Lansdale**	**SL74LS161A**	
			(3674)
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
	SGS-Thomson		
		T74LS161A	
	TI	SN74LS161A	
GD74LS163A	**Lansdale**	**SL74LS163A**	
			(3674)
	Motorola	SN74LS163A	
	National	DM74LS163A	
		74LS163	
	SGS-Thomson		
		T74LS163A	
	TI	SN74LS163A	
GD74LS164	**Lansdale**	**SL74LS164**	**(3674)**
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
	SGS-Thomson		
		T74LS164	
		74LS164	
	TI	SN74LS164	
GD74LS165	Motorola	SN74LS165	
	National	74LS165	
	TI	SN74LS165A	
GD74LS166	Motorola	SN74LS166	
	National	DM74LS166	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD74LS166			(Cont'd)
	SGS-Thomson		
		T74LS166	
		74LS166	
	TI	SN74LS166A	
GD74LS174	**Lansdale**	**SL74LS174**	**(3674)**
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
	SGS-Thomson		
		T74LS174	
		74LS174	
	TI	SN74LS174	
GD74LS175	**Lansdale**	**SL74LS175**	**(3674)**
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
	SGS-Thomson		
		T74LS175	
		74LS175	
	TI	SN74LS175	
GD74LS191	**Lansdale**	**SL74LS191**	**(3674)**
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
	SGS-Thomson		
		T74LS191	
		74LS191	
	TI	SN74LS191	
GD74LS193	**Lansdale**	**SL74LS193**	**(3674)**
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
	SGS-Thomson		
		T74LS193	
		74LS193	
	TI	SN74LS193	
GD74LS194A	**Lansdale**	**SL74LS194A**	
			(3674)
	Motorola	SN74LS194A	
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson		
		T74LS194A	
		74LS194	
	TI	SN74LS194A	
GD74LS195A	Motorola	SN74LS195A	
	National	DM74LS195A	
	SGS-Thomson		
		T74LS195A	
		74LS195	
	TI	SN74LS195A	
GD74LS20	**Lansdale**	**SL74LS20**	**(3674)**
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
	Rochester	74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
	TI	SN74LS20	
GD74LS21	**Lansdale**	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
	Rochester	74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
	TI	SN74LS21	
GD74LS221	Motorola	SN74LS221	
	National	DM74LS221	
	TI	SN74LS221	
GD74LS240	**Lansdale**	**SL74LS240**	**(3674)**
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
	SGS-Thomson		
		T74LS240	
		74LS240	
	TI	SN74LS240	
GD74LS241	**Lansdale**	**SL74LS241**	**(3674)**
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
	SGS-Thomson		
		T74LS241	
		74LS241	
	TI	SN74LS241	
GD74LS242	**Lansdale**	**SL74LS242**	**(3674)**
	Motorola	SN74LS242	
	TI	SN74LS242	
GD74LS243	**Lansdale**	**SL74LS243**	**(3674)**
	Motorola	SN74LS243	

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Manufacturer Device	Replacement Source	Device	IC Master Page
GD74LS243			(Cont'd)
	National	DM74LS243	
	TI	SN74LS243	
GD74LS244	**Lansdale**	**SL74LS244**	**(3674)**
	Motorola	SN74LS244	
	National	DM74LS244	
		74LS244	
	SGS-Thomson		
		T74LS244	
		74LS244	
	TI	SN74LS244	
GD74LS245	**Lansdale**	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
	Rochester	74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
	TI	SN74LS245	
GD74LS251	**Lansdale**	**SL74LS251**	**(3674)**
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
	Rochester	74LS251	
	SGS-Thomson		
		T74LS251	
		74LS251	
	TI	SN74LS251	
GD74LS257A	**Lansdale**	**SL74LS257A**	
			(3674)
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
	TI	SN74LS257B	
GD74LS258B	**Lansdale**	**SL74LS258A**	
			(3674)
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
		74LS258	
	Rochester	74LS258	
	SGS-Thomson		
		T74LS258A	
		74LS258	
	TI	SN74LS258B	
GD74LS259	**Lansdale**	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
	Rochester	74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
	TI	SN74LS259B	
GD74LS26	**Lansdale**	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
	TI	SN74LS26	
GD74LS27	**Lansdale**	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
	Rochester	74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
	TI	SN74LS27	
GD74LS273	**Lansdale**	**SL74LS273**	**(3674)**
	Motorola	SN74LS273	
	National	74LS273	
	SGS-Thomson		
		T74LS273	
		74LS273	
	TI	SN74LS273	
GD74LS280	Motorola	SN74LS280	
	SGS-Thomson		
		T74LS280	
		74LS280	
	TI	SN74LS280	
GD74LS283	**Lansdale**	**SL74LS283**	**(3674)**
	Motorola	SN74LS283	

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Manufacturer Device	Replacement Source	Device	IC Maste Pag
GD74LS283			(Cont'd)
	National	DM74LS283	
		74LS283	
	SGS-Thomson		
		T74LS283	
		74LS283	
	TI	SN74LS283	
GD74LS298	**Lansdale**	**SL74LS298**	**(3674**
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson		
		T74LS298	
		74LS298	
	TI	SN74LS297	
		SN74LS298	
♦ GD74LS299	Motorola	SN74LS299	
	National	74LS299	
	TI	SN74LS299	
GD74LS30	**Lansdale**	**SL74LS30**	**(3674**
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
	Rochester	74LS30	
	SGS-Thomson		
		T74LS30	
		74LS30	
	TI	SN74LS30	
GD74LS32	**Lansdale**	**SL74LS32**	**(3674**
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
	TI	SN74LS31	
		SN74LS32	
GD74LS322	Motorola	SN74LS322A	
	National	74LS322	
	TI	SN74LS322A	
GD74LS366A	**Lansdale**	**SL74LS366A**	
			(367
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
	SGS-Thomson		
		T74LS366A	
		74LS366A	
	TI	SN74LS366A	
GD74LS367A	Motorola	SN74LS367A	
	National	DM74LS367A	
		74LS367	
	Rochester	74LS367	
	SGS-Thomson		
		T74LS367A	
		74LS367A	
	TI	SN74LS367A	
GD74LS368A	**Lansdale**	**SL74LS368A**	
			(367
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
	Rochester	74LS368	
	SGS-Thomson		
		T74LS368A	
		74LS368A	
	TI	SN74LS368A	
GD74LS373	**Lansdale**	**SL74LS373**	**(367**
	Motorola	SN74LS373	
	National	DM74LS373	
		74LS373	
	SGS-Thomson		
		T74LS373	
		74LS373	
	TI	SN74LS373	
GD74LS374	**Lansdale**	**SL74LS374**	**(36**
	Motorola	SN74LS374	
	National	DM74LS374	
		74LS374	
	SGS-Thomson		
		T74LS374	
		74LS374	
	TI	SN74LS374	
GD74LS377	**Lansdale**	**SL74LS377**	**(36**
	Motorola	SN74LS377	
	National	74LS377	
	SGS-Thomson		
		T74LS377	
		74LS377	
	TI	SN74LS377	
GD74LS38	**Lansdale**	**SL74LS38**	**(36**
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GD74LS38			(Cont'd)
	Rochester	74LS38	
	SGS-Thomson	T74LS38	
		74LS38	
	TI	SN74LS38	
GD74LS390	**Lansdale**	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson	T74LS390	
		74LS390	
	TI	SN74LS390	
GD74LS393	**Lansdale**	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	DM74LS393	
		74LS393	
	SGS-Thomson	T74LS393	
		74LS393	
	TI	SN74LS393	
GD74LS395	**Lansdale**	**SL74LS395A**	**(3674)**
	Motorola	SN74LS395	
	National	74LS395	
	SGS-Thomson	T74LS395A	
		74LS395	
	TI	SN74LS395A	
GD74LS42	Motorola	SN74LS42	
	National	DM74LS42	
		74LS42	
	Rochester	74LS42	
	SGS-Thomson	T74LS42	
		74LS42	
	TI	SN74LS42	
GD74LS51	**Lansdale**	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
		74LS51	
	TI	SN74LS51	
GD74LS541	**Lansdale**	**SL74LS541**	**(3674)**
	Motorola	SN74LS541	
	SGS-Thomson	T74LS541	
	TI	SN74LS541	
GD74LS55	Motorola	SN74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS541B1	
		T74LS55	
		74LS55	
	TI	SN74LS55	
GD74LS590	TI	SN74LS590	
GD74LS640	GoldStar	GD74LS640-1	
	Lansdale	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
GD74LS640-1	GoldStar	GD74LS640	
	Lansdale	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
GD74LS646	SGS-Thomson	T74LS645B1	
	TI	SN74LS646	
GD74LS670	**Lansdale**	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	DM74LS670	
		74LS670	
	Rochester	74LS670	
	SGS-Thomson	T74LS670	
		74LS670	
	TI	SN74LS670	
D74LS688	Motorola	SN74LS688	
	TI	SN74LS688	
D74LS73A	**Lansdale**	**SL74LS73**	**(3674)**
	Motorola	SN74LS73A	
			(Continued)
GD74LS73A			(Cont'd)
	National	DM74LS73A	
	TI	SN74LS73A	
GD74LS74A	**Lansdale**	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74	
		74LS74	
	Rochester	74LS74	
	SGS-Thomson	T74LS74A	
		74LS74	
	TI	SN74LS74A	
♦ GD74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748	
		SN74LS75	
♦ GD74LS75	National	DM74LS75	
	Rochester	74LS75	
	SGS-Thomson	T74LS75	
	TI	SN74LS75	
GD74LS85	**Lansdale**	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
	National	DM74LS85	
		74LS85	
	Rochester	74LS85	
	TI	SN74LS85	
GD74LS86	**Lansdale**	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
	Rochester	74LS86	
	SGS-Thomson	T74LS86	
		74LS86	
	TI	SN74LS86A	
GD74LS90	**Lansdale**	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson	T74LS90	
		74LS90	
	TI	SN74LS90	
GD74LS92	**Lansdale**	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	SGS-Thomson	T74LS92	
	TI	SN74LS92	
GD74LS93	**Lansdale**	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	T74LS93	
		74LS93	
	TI	SN74LS93	
GD74LS95B	**Lansdale**	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson	T74LS93B1	
		T74LS95B	
		74LS95B	
	TI	SN74LS95B	
GD74S00	**Lansdale**	**SL74S00**	**(3675)**
	National	DM74S00	
		74S00	
	TI	SN74S00	
GD74S02	**Lansdale**	**SL74S02**	**(3675)**
	National	DM74S02	
		74S02	
	TI	SN74S02	
GD74S04	**Lansdale**	**SL74S04**	**(3675)**
	National	DM74S04	
		74S04	
	Rochester	74S04	
	TI	SN74S04	
GD74S05	**Lansdale**	**SL74S05**	**(3675)**
	National	DM74S05	
		74S05	
	Rochester	74S05	
	TI	SN74S05	
GD74S08	**Lansdale**	**SL74S08**	**(3675)**
	National	DM74S08	
		74S08	
	TI	SN74S08	
GD74S10	**Lansdale**	**SL74S10**	**(3675)**
	National	DM74S10	
		74S10	
	TI	SN74S10	
			(Continued)
GD74S112	**Lansdale**	**SL74S112**	**(3675)**
	National	DM74S112	
		74S112	
	Rochester	74S112	
	TI	SN74S112	
GD74S133	**Lansdale**	**SL74S133**	**(3675)**
	National	DM74S133	
		74S133	
	Rochester	74S133	
	TI	SN74S133	
GD74S138	**Lansdale**	**SL74S138**	**(3675)**
	National	DM74S138	
		74S138	
	TI	SN74S138	
GD74S139	**Lansdale**	**SL74S139**	**(3675)**
	National	DM74S139	
		74S139	
	Rochester	74S139	
	TI	SN74S139	
GD74S153	**Lansdale**	**SL74S153**	**(3675)**
	National	DM74S153	
		74S153	
	Rochester	74S153	
	TI	SN74S153	
GD74S157	**Lansdale**	**SL74S157**	**(3675)**
	National	DM74S157	
		74S157	
	Rochester	74S157	
	TI	SN74S157	
GD74S158	**Lansdale**	**SL74S158**	**(3675)**
	National	DM74S158	
		74S158	
	Rochester	74S158	
	TI	SN74S158	
GD74S163A	TI	SN74S162	
		SN74S163	
GD74S169A	TI	SN74S169	
GD74S174	**Lansdale**	**SL74S174**	**(3675)**
	National	DM74S174	
		74S174	
	Rochester	74S174	
	TI	SN74S174	
GD74S175	**Lansdale**	**SL74S175**	**(3675)**
	National	DM74S175	
		74S175	
	TI	SN74S175	
GD74S20	**Lansdale**	**SL74S20**	**(3675)**
	National	DM74S20	
		74S20	
	Rochester	74S20	
	TI	SN74S20	
GD74S240	**Lansdale**	**SL74S240**	**(3675)**
	National	DM74S240	
	TI	SN74S240	
GD74S241	**Lansdale**	**SL74S241**	**(3675)**
	National	DM74S241	
	TI	SN74S241	
GD74S242	GoldStar	GD74S243	
GD74S243	GoldStar	GD74S242	
GD74S244	**Lansdale**	**SL74S244**	**(3675)**
	TI	SN74S244	
GD74S251	**Lansdale**	**SL74S251**	**(3675)**
	National	DM74S251	
	TI	SN74S251	
GD74S257	**Lansdale**	**SL74S257**	**(3675)**
	National	DM74S257	
		74S257	
	Rochester	74S257	
	TI	SN74S257	
GD74S280	**Lansdale**	**SL74S280**	**(3675)**
	National	DM74S280	
	TI	SN74S280	
♦ GD74S299	National	DM74S299	
	TI	SN74S299	
GD74S30	National	DM74S30	
		74S30	
	Rochester	74S30	
	TI	SN74S30	
GD74S32	**Lansdale**	**SL74S32**	**(3675)**
	National	DM74S32	
		74S32	
	TI	SN74S32	
GD74S374	**Lansdale**	**SL74S374**	**(3675)**
	National	DM74S374	
	TI	SN74S374	
GD74S51	**Lansdale**	**SL74S51**	**(3675)**
	National	DM74S51	
		74S51	
	TI	SN74S482	
		SN74S51	
GD74S64	**Lansdale**	**SL74S64**	**(3675)**
	National	DM74S64	
		74S64	
			(Continued)
GD74S64			(Cont'd)
	Rochester	74S64	
	TI	SN74S64	
GD74S74	**Lansdale**	**SL74S74**	**(3675)**
	National	DM74S74	
		74S74	
	Rochester	74S74	
	TI	SN74S74	
GD74S85	**Lansdale**	**SL74S85**	**(3675)**
	TI	SN74S85	
GD74S86	**Lansdale**	**SL74S86**	**(3675)**
	National	DM74S86	
		74S86	
	Rochester	74S86	
	TI	SN74S86	
GL1150	Sanyo	LA7850	
GL1151	Sanyo	LA7851	
GL1160	National	LM1203	
GL3101A	Hitachi	HA11440A	
GL3120	Sanyo	LA7520	
GL3201A	Sanyo	LA1635	
GL3230	Toshiba	TA7630	
GL3401	Hitachi	HA11423	
GL3620	Waferscale	WS57C64	
GL3711	Sanyo	LA7911	
GL3816	Sanyo	LA7016	
GL3842	**Micrel**	**MIC38C42**	**(3685)**
		MIC38HC42	
GL386	National	LM386	
	Samsung	LM386	
GL494	Unitrode	UC494	
GL5560	Philips	NE5560	
GL5561	Philips	NE5561	
GL7805	TI	μA7805	
GL7806	TI	μA7806	
GL7808	TI	μA7808	
GL7812	TI	μA7812	
GL7815	TI	μA7815	
GL7824	TI	μA7824	
GL7905	TI	μA7905	
GL7912	TI	μA7912	
GL7915	TI	μA7915	
GL7924	TI	μA7924	
GMM322000SG			
	Hitachi	HB56D232	
	Mitsubishi	MH2M32EJ	
	NEC	MC422000A32	
	Toshiba	THM322020ASG	
GMM7321000SG			
	Hitachi	HB56D132R	
	Mitsubishi	MH1M32DJ	
	NEC	MC421000A32	
	Toshiba	THM321000ASG	
GMM7361000SG			
	Hitachi	HB56D136B	
	Mitsubishi	MH1M36DJ	
	NEC	MC421000A36B	
	Toshiba	THM361020SG	
GMM7362000SG			
	Hitachi	HB56D236	
	Mitsubishi	MH2M36CJ	
	NEC	MC122000A36	
	Toshiba	THM362040ASC	
GMM736256SG			
	Hitachi	HB56025636B	
	Mitsubishi	MH25636BJ	
	NEC	MC42256A36B	
	Toshiba	THM362500AS	
GMM736512SG			
	Hitachi	HB56D51236B	
	Mitsubishi	MH51236BJ	
	NEC	MC42512A36B	
	Toshiba	THM365120AS	
GMM781000S			
	Fujitsu	MB85230	
	Hitachi	HB56A18	
	Mitsubishi	MH1M08AOJ	
	NEC	MC421000A8	
	Toshiba	THM81000AS	
GMM791000NS			
	Toshiba	THM91070S	
GMM791000S			
	Fujitsu	MB85235	
	Hitachi	HB56A19A	
	Mitsubishi	MH1M09BOJ	
	NEC	MC421000A9A	
	TI	TM024GAD9	
	Toshiba	THM91000AS	
GMM794000S			
	Fujitsu	MB85295	
	Hitachi	HB56A49	
	Mitsubishi	MH4M09AODJ	
	NEC	MC42400A9A	
	Toshiba	THM94000ASG	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

GoldStar Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
GM23C4000	Fujitsu	MB834100	
	Hitachi	HN623X4	
	Mitsubishi	M5M23C401	
	NEC	µPD23C4001E	
	Sharp	LH534300	
	Toshiba	TC534000	
GM23C4100	Fujitsu	MB834200	
	Hitachi	HN624X4	
	Mitsubishi	M5M23C400	
	NEC	µPD23C4000	
	Sharp	LH534000	
GM231000	Fujitsu	MB831000	
	Hitachi	HN62301	
	Hyundai	HY628100	
	Mitsubishi	M5M23C100	
	NEC	µPD23C1000	
	OKI	MSM531000	
	Sharp	LH531000A	
	Toshiba	TC531000	
GM27HC64	Waferscale	WS57C64	
GM53C261	AMD	AM90C644	
	Fujitsu	MB81461	
	Hitachi	HM53461	
	MicronSemi	MT42C4064	
	Mitsubishi	M5M4C264	
	NEC	µPD41264	
	TI	TMS4461	
	Vitelic	V53C261	
GM53C461	AMD	AM90C644	
	Fujitsu	MB81461	
	Hitachi	HM53461	
	MicronSemi	MT42C4064	
	Mitsubishi	M5M4C264	
	NEC	µPD41264	
	TI	TMS4461	
	Vitelic	V53C461	
GM71C100ASL			
	Hitachi	HM514100ASL	
GM71C1000	Fujitsu	MB81C1000A	
	Hitachi	HM511000A	
	Hyundai	HY531000	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C1000B	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
		MCM511000A	
	NEC	µPD421000	
	OKI	MSM511000	
	TI	TMS4C1024	
		TMX4C1024	
	Toshiba	TC511000	
GM71C1000L	Fujitsu	MB81C4256AL	
	Hitachi	HM511000AL	
	Toshiba	TC511000L	
GM71C256	Fujitsu	MB81C256	
	Hitachi	HM51256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Motorola	MCM6256	
	Vitelic	V53C256	
GM71C256A	Fujitsu	MB81256	
	Hitachi	HM51256	
	Mitsubishi	M5M4256A	
	NEC	µPD41256	
	TI	TMS4256	
	Toshiba	TC51256	
GM71C4100	MicronSemi	MT4C1004	
	Motorola	MCM54100	
GM71C4100A	Fujitsu	MB814100	
	Hitachi	HM5141000A	
	Hyundai	HY514100	
	Mitsubishi	M5M44100A	
	Motorola	MCM54100A	
	NEC	µPD424100	
	Toshiba	TC514100A	
GM71C4100AL			
	Hitachi	HM514100AL	
	Mitsubishi	M5M44100AL	
	Toshiba	TC514100AL	
GM71C4256	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44C256	
	Motorola	MCM514256	
		MCM514256A	
	NEC	µPD424256	
	OKI	MSM514256	
			(Continued)
GM71C4256			(Cont'd)
	TI	TMS44C256	
	Toshiba	TC514256	
	Vitelic	V51C104	
GM71C4256A	Fujitsu	MB81C4256A	
	Hitachi	HM514256A	
	Hyundai	HY534256	
	Mitsubishi	M5M44C256B	
	Mosel-Vitelic	V53C104	
		V53C104B	
	NEC	µPD424256	
	TI	TMS44C256	
	Toshiba	TC514256	
GM71C4256AL			
	Fujitsu	MB81C4256AL	
	Hitachi	HM514256AL	
GM71C4260	Fujitsu	MB814260	
	Hitachi	HM514260	
	MicronSemi	MT4C16257	
	Mitsubishi	M5M44260A	
	NEC	µPD424260	
	Toshiba	TC514260A	
GM71C4260L	Hitachi	HM514260L	
	Toshiba	TC514260AL	
GM71C4400	MicronSemi	MT4C4001	
	Motorola	MCM54400	
GM71C4400A	Fujitsu	MB814400	
	Hitachi	HM514400A	
	Hyundai	HY514400	
	Mitsubishi	M5M44400A	
	Motorola	MCM54400A	
	NEC	µPD42400	
	Toshiba	TC514400A	
GM71C4400AL			
	Hitachi	TC514400AL	
	Mitsubishi	M5M4400AL	
GM71C4400ASL			
	Hitachi	HM514400ASL	
GM71C464	Fujitsu	MB81464	
	Hitachi	HM50464	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mitsubishi	M5M4464	
	Motorola	MCM4146	
	NEC	µPD41464	
	OKI	M5M4464	
	TI	TMS4464	
	Toshiba	TMM41464	
	Vitelic	V53C464	
GM71C464A	Fujitsu	MB81464	
	Hitachi	HM51464	
	Mitsubishi	M5M4464A	
	NEC	µPD41464	
	TI	TMS4464	
GM71C4800	Fujitsu	MB814800	
	Hitachi	HM514800	
	MicronSemi	MT4C8512	
		MT4C8513	
	Mitsubishi	M5M44800A	
	NEC	µPD424800	
	Toshiba	TC514800A	
GM71C4800L	Hitachi	HM514800L	
	Toshiba	TC514800AL	
GM71C7256	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44C256	
	NEC	µPD424256	
	OKI	MSM514256	
	TI	TMS44C256	
	Toshiba	TC514256	
GM71256	Fujitsu	MB81256	
	Hitachi	HM50256	
	Mitsubishi	M5M4256	
	Mosel-Vitelic	V53C256	
	Motorola	MCM6255	
	NEC	µPD41256	
	OKI	MSM41256	
	TI	TMS4256	
	Toshiba	TMM41256	
	Vitelic	V53C256	
GM76C164	Toshiba	TC55416	
GM76C256	Cypress	CY7C198	
	Fujitsu	MB84256A	
	Hitachi	HM62256	
	Hyundai	HY62256A	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
			(Continued)
GM76C256			(Cont'd)
	LogicDev	L7C199	
	Mitsubishi	M5M5256B	
	Mosel-Vitelic	MS62256	
	Motorola	MCM60256	
	NEC	µPD43256A	
	OKI	M5M51257	
	S-MOS	SRM20256	
	Sony	CXK58257	
	Toshiba	TC55257	
		TC55257A	
	Vitelic	V62C256	
GM76C256L	Hitachi	HM62256L	
	Toshiba	TC55257AL	
GM76C256LL	Hitachi	HM62256AL	
GM76C28	Cypress	CY7C128	
	Fujitsu	MB8416	
	Hitachi	HM6116	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	Mitsubishi	M5M5117	
	Mosel-Vitelic	MS6516	
	Motorola	MCM6116	
	NEC	µPD446	
	OKI	MSM5128	
	S-MOS	SRM2016	
	Sony	CXK5816	
	Toshiba	TC5517	
	Vitelic	V61C16	
GM76C8128L	Fujitsu	MB841000AL	
	Hitachi	HM628128L	
	Mitsubishi	M5M51998	
	NEC	µPD431000	
	Sony	TM562828	
	Toshiba	TC55100L	
GM76C88	Fujitsu	MB8454	
		MB8464	
	Hitachi	HM6264	
	Hyundai	HY6264A	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mitsubishi	M5M5165	
	Motorola	MCM60L64	
		MCM6164	
	NEC	µPD4364	
	OKI	MSM5165	
	S-MOS	SRM2064	
	Toshiba	TC5563	
		TC5565	
	Vitelic	V62C64	
GM76C88L	Fujitsu	MB8464L	
	Hitachi	HM6264AL	
	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
	Mitsubishi	M5M5165	
	NEC	µPD4364L	
	Sony	CXK5864B	
	Toshiba	TC5565A	
54AC05	Harris	CD54AC05	
54LS04	GoldStar	GD54LS04	
	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson		
		T54LS04	
		54LS04	
	TI	SN54LS04	
76C48	**Krueger**	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**

Harris Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC0801	GEC Plessey	ZN439	
		ZN447	
	National	ADC0801	
		DAC0801	
ADC0802	GEC Plessey	ZN439	
		ZN448	
	National	ADC0802	
ADC0803	GEC Plessey	ZN439	
		ZN448	
			(Continued)
ADC0803			(Cont'd)
	National	ADC0803	
	Philips	ADC0803	
	TI	ADC0803	
ADC0804	GEC Plessey	ZN439	
		ZN449	
	National	ADC0804	
	Philips	ADC0804	
	TI	ADC0804	
ADC774	Burr-Brown	ADC774	
AD590	AD	AD590	
AD7520	AD	AD7520	
		PM7533	
	Maxim	AD7520	
		MX7520	
	MicroPwr	MP7520	
	National	DAC1020	
		DAC1021	
		DAC1022	
	Unitrode	PIC7520	
AD7521	AD	AD7521	
		PM7541	
	Burr-Brown	DAC7541	
	Maxim	AD7521	
		MX7521	
	MicroPwr	MP7521	
	National	DAC1220	
		DAC1221	
		DAC1222	
AD7523	AD	AD7523	
		PM7524	
	Maxim	AD7523	
		MX7523	
	MicroPwr	MP7523	
	Unitrode	PIC7523	
AD7530	AD	AD7530	
		PM7533	
	Maxim	AD7530	
		MX7530	
	National	DAC1020	
		DAC1021	
		DAC1022	
	Unitrode	PIC7530	
AD7531	AD	AD7531	
		PM7541	
	Burr-Brown	DAC7541	
	Maxim	AD7531	
		MX7531	
	National	DAC1220	
		DAC1221	
		DAC1222	
	Unitrode	PIC7531	
AD7533	AD	AD7533	
		PM7533	
	Maxim	AD7533	
		MX7533	
	MicroPwr	MP7533	
	National	DAC1020	
		DAC1021	
		DAC1022	
	Unitrode	PIC7533	
AD7541	AD	AD7541	
		PM7541	
	Burr-Brown	DAC7541	
	Datel	DAC7541	
	Maxim	AD7541	
		MX7541	
	MicroPwr	MP7541	
		MP7621	
	National	DAC1218	
		DAC1219	
	Sipex	HDAC7541	
		HS7541	
AD7545	AD	AD7545	
		PM7545	
	Burr-Brown	**DAC7545**	**(346**
	Maxim	AD7545	
		MX7545	
	MicroPwr	MP7545	
	Sipex	HDAC7545	
		HS7545	
CA0723	Linfinity Micro	SG723	
	Maxim	MA723	
	Motorola	MC1723	
	National	µA723	
		LM723	
	Philips	µA723	
		SA723	
	TI	µA723	
CA081	AD	OP15	
	AnalogSys	MA332	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
CA081	AnalogSys		(Cont'd)
		MA333	
		MA362	
	Motorola	TL081	
	National	LF411	
		TL081	
	Panasonic	AN1081	
	SGS-Thomson	TL081	
	TI	TL081	
CA082	AD	OP215	
	AnalogSys	MA336	
		MA372	
	Motorola	TL082	
	National	LF412	
		TL082	
	Panasonic	AN1082	
	SGS-Thomson	TL082	
	TI	TL082	
CA084	AnalogSys	MA374	
	Motorola	TL082	
		TL084	
	National	LF147	
		LF347	
	SGS-Thomson	TL084	
	TI	TL084	
A101	Motorola	LM101	
A101A	Raytheon	LM101A	
A107	Motorola	MC1741	
A124	AD	OP421	
	National	LM124	
	Philips	LM124	
	Raytheon	LM124	
	SGS-Thomson	LM124	
A1305	National	LM675	
A139	**AD**	**PM139**	**(3539)**
	Motorola	LM139	
	National	LM139	
	Raytheon	LM139	
	SGS-Thomson	LM139	
A139A	National	LM139A	
A1391	Motorola	MC1391	
	National	LM1391	
A1394	Motorola	MC1394	
	National	LM1394	
A1458	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Motorola	MC1458	
	National	LM1458	
	Panasonic	AN1458	
		AN6572	
	SGS-Thomson	MC1458	
A1524	Cherry Semi	CS1524	
	Exar	XR1524	
	LinearTech	LT1524	
		SG1524	
	Linfinity Micro	SG1524	
	National	LM1524	
	SGS-Thomson	SG1524	
	Unitrode	UC1524	
1558	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Motorola	MC1558	
	National	LM1558	
158	AD	OP221	
	National	LM158	
	Philips	SE532	
	SGS-Thomson	LM158	
158A	National	LM158A	
201	Motorola	LM201	
207	Motorola	MC1741	
22301	AD	RPT82	
		RPT83	
224	AD	OP421	
	National	LM224	
	SGS-Thomson	LM224	
239	**AD**	**PM139**	**(3539)**
	Motorola	LM239	
	National	LM239	
	Philips	LM239	
		LM239A	
	SGS-Thomson	LM239	
			(Continued)
CA239A	National	LM239A	
CA2524	Cherry Semi	CS2524	
	Exar	XR2524	
	Linfinity Micro	SG2524	
	National	LM2524	
	SGS-Thomson	SG2524	
	TI	SG2524	
	Unitrode	UC2524	
CA258	National	LM258	
	SGS-Thomson	LM258	
CA258A	National	LM258A	
CA2901	SGS-Thomson	LM2901	
CA2902	SGS-Thomson	LM2902	
CA2904	AnalogSys	MA336	
		MA372	
CA3008	Motorola	MC1709	
CA301	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	LM301	
	National	LM301	
	SGS-Thomson	LM301	
CA301A	National	LM301A	
CA3010	Motorola	MC1709	
CA3011	Motorola	MC1590	
CA3012	Motorola	MC1590	
CA3015	Motorola	MC1709	
CA3016	Motorola	MC1709	
CA3020	Motorola	MC1454	
		MC1554	
CA3021	Motorola	MC1590	
CA3022	Motorola	MC1590	
CA3023	Motorola	MC1590	
CA3026	Motorola	CA3054	
CA3029	Motorola	MC1709	
CA3030	Motorola	MC1709	
♦ CA3033	Lansdale	ML1533	
CA3037	Motorola	MC1709	
CA3038	Motorola	MC1709	
♦ CA3040	Lansdale	ML1510	
CA3044	Motorola	MC13010	
CA3045	GEC Plessey	SL3045	
		SL3046	
		SL3145	
	Linfinity Micro	SG3045	
	Motorola	MC3346	
	National	LM3045	
	SGS-Thomson	LM3045	
CA3046	GEC Plessey	SL3046	
		SL3145	
	Motorola	MC3346	
	National	LM3046	
	SGS-Thomson	LM3046	
	Siemens	TCA971	
		TCA991	
	TI	MC3346	
	Toshiba	TDB2046	
CA3048	Motorola	MC3301	
CA3049	Linfinity Micro	SG3049	
CA3052	Motorola	MC3301	
CA3054	Motorola	CA3054	
CA3056	Motorola	MC1741	
CA3058	Motorola	CA3059	
CA3059	Motorola	CA3059	
CA3064	Motorola	MC13010	
CA307	National	LM307	
CA3076	Motorola	MC1590	
CA3078	AD	OP90	
	Motorola	MC1776	
CA3079	Motorola	CA3079	
CA3080	National	LM3080	
CA3083	Linfinity Micro	SG3083	
CA3084	Elantec	EN2015	
CA3085	Motorola	MC1723	
CA3086	Motorola	MC3346	
	National	LM3086	
CA3089	National	LM3089	
CA3091	Motorola	MC1594	
CA3094	GEC Plessey	SL6310	
CA3100	AnalogSys	MA332	
		MA333	
		MA362	
	National	LF400	
			(Continued)
CA3105	National	LM675	
CA311	National	LM311	
	SGS-Thomson	LM311	
CA3127	GEC Plessey	SL3127	
CA3130	AD	OP80	
	Motorola	LF357	
	National	LF157	
		LF357	
	NEC	µPC357	
	SGS-Thomson	LF157	
		LF357	
CA3136	Motorola	MC3346	
CA3139	Motorola	MC13010	
CA3140	AD	OP15	
		OP41	
	Burr-Brown	OPA121	
	LinearTech	LF412	
		OP15	
	Motorola	LF351	
		LF411	
		MC33071	
		MC34001	
		MC34071	
	National	LF351	
		LF411	
		LF412	
		LH0002	
		LH0022	
		LH0042	
	Samsung	KF351	
	SGS-Thomson	LF351	
		MC34001	
	TI	LF351	
		LF411	
		LF412	
		MC33071	
	Unitrode	UCOP01	
CA3145	GEC Plessey	SL3145	
CA3146	GEC Plessey	SL3146	
	Motorola	CA3146	
		MC3346	
	National	LM3146	
	Siemens	TCA971	
		TCA991	
CA3154	Allegro Micro	ULN2260A	
CA3162	TI	TL501	
		TL503	
CA3183	Linfinity Micro	SG3183	
	Toshiba	TD6250	
CA3189	National	LM3189	
CA3193	AD	OP41	
		OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
CA3199	GEC Plessey	SP8611	
CA3201	Motorola	TDA3301	
CA3210	Motorola	MC13001	
CA3217	Allegro Micro	ULN3914A	
	Motorola	TDA3301	
CA3219	Allegro Micro	UDN2543	
		UDQ2543	
CA3223	Motorola	MC13002	
CA3227	GEC Plessey	SL3227	
CA3232	GEC Plessey	SP8657	
CA324	AD	OP421	
	National	LM324	
	Panasonic	AN1324	
		AN6564	
	Raytheon	LM324	
	SGS-Thomson	LM324	
CA3240	AD	OP215	
	LinearTech	LF412	
		OP215	
	Motorola	LF353	
		MC33072	
		MC34002	
		MC34072	
	National	LF353	
		LF412	
	SGS-Thomson	LF353	
		MC34002	
	TI	LF353	
		LF412	
		MC33072	
			(Continued)
CA3242	Allegro Micro	UDN2543	
	National	DS3668	
	TI	SN75435	
CA3245	GEC Plessey	SL3245	
CA3246	GEC Plessey	SL3245	
CA3252	National	DS3669	
	TI	SN75440	
CA3262	Allegro Micro	UDN2541B	
		UDN2543	
	National	DS3658	
	SGS-Thomson	L6221	
		L6222	
	TI	SN75437	
CA3272	Allegro Micro	UDN2547	
CA3280	Exar	XR13600	
	Philips	NE5517	
CA3282	TI	TPIC2801	
CA3290	Motorola	LM193	
		LM2901	
		LM2903	
		LM293	
		MC3302	
	National	LM193	
		LM2901	
		LM2903	
		LM293	
		LM3302	
		LM393	
	Philips	LM193	
		LM2903	
		LM293	
		LM393	
		MC3302	
	Samsung	LM2901	
		LM2903	
		LM293	
		LM3302	
		LM393	
	SGS-Thomson	LM193	
		LM2901	
		LM2903	
		LM293	
		LM393	
		MC3302	
	TI	LM193	
		LM2901	
		LM2903	
		LM293	
		LM3302	
	Toshiba	TA75393	
CA3300	GEC Plessey	ZN440	
	MicroPwr	MP076	
		MP7682	
CA3302	Motorola	MC3302	
CA3306	Harris	HI5701	
	MicroPwr	MP3306	
		MP7682	
		MP7686	
CA3308	GEC Plessey	SP973	
CA3310	AD	AD571	
		AD573	
		AD7579	**(3510)**
		AD7580	**(3510)**
	GEC Plessey	ZN502	
♦ CA3318	SGS-Thomson	TS8308	
CA3338	GEC Plessey	SP5308	
		SP5408	
CA339	**AD**	**PM139**	**(3539)**
	Motorola	LM339	
	National	LM339	
	Philips	LM339	
	SGS-Thomson	LM339	
CA339A	National	LM339A	
CA3401	Motorola	MC3401	
	National	LM3401	
CA3420	AD	OP80	
CA3440	AD	OP80	
	SGS-Thomson	LS776	
	TI	TLC251	
CA3450	AD	OP65	
CA3493	AD	OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
			(Continued)

continued

♦ The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
CA3524	Cherry Semi	CS3524	
	Exar	XR3524	
	LinearTech	LT3524	
		SG3524	
	Linfinity Micro	CA3524	
		SG3524	
	National	LM3524	
	SGS-Thomson	SG3524	
	TI	SG3524	
	Toshiba	TA76524	
	Unitrode	UC3524	
CA358	AnalogSys	MA336	
		MA372	
	National	LM358	
	Panasonic	AN1358	
		AN6562	
	Philips	LM358	
		NE532	
	SGS-Thomson	LM358	
CA358A	National	LM358A	
	Philips	NE532	
CA4051	AD	SSM2300	
CA5130	Siemens	TCA520	
CA5160	AD	AD821	
	Philips	NE5230	
		SA5230	
CA5260	Samsung	KS272	
	TI	TLC252	
		TLC27M2	
		TLC272	
CA5422	AD	OP215	
CA5470	Exar	XR3403	
	Motorola	MC3303	
		MC3403	
	Philips	MC3303	
	Raytheon	RC3403	
	Samsung	KS274	
		MC3303	
		MC3403	
	SGS-Thomson	MC3403	
	TI	MC3303	
		MC3403	
		TLC254	
		TLC274	
CA555	SGS-Thomson	NE555	
CA6078	Motorola	MC1776	
CA6741	Motorola	MC1776	
CA723	Fujitsu	MB3752	
	Motorola	MC1723	
	Philips	µA723	
CA741	AD	OP02	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	MC1741	
	National	LM741	
	Raytheon	RC741	
	SGS-Thomson	µA741	
CA747	AD	OP04	
	Motorola	MC1747	
	National	LM747	
	Philips	µA747C	
CA748	AD	OP08	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	MC1748	
	National	LM748	
	SGS-Thomson	µA748	
CA7607	Motorola	MC13010	
CA7611	Motorola	MC13010	
CDM1821	Harris	HM6508	
CDM5364	Hughes	H23C64	
		H23C65	
CDM5365	Hughes	H23C64	
		H23C65	
CDM6116	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Mosel-Vitelic	MS6516	
	Sharp	LH5116	
CDM62256	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
			(Continued)
CDM62256			(Cont'd)
	Sharp	LH52250AL	
	Toshiba	TC55257	
CDM6264	**Krueger**	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Sharp	LH5168	
	Toshiba	TC5563	
CDM6264A	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
CDM6508	Harris	HM6508	
CDP1802	Hughes	H1802	
CDP1821	GoldStar	GD4736	
CDP1822	GoldStar	GD4721	
	Hughes	H1822	
CDP1824	Hughes	H1824	
CDP1831	Hughes	H1831	
		H1832	
CDP1832	Hughes	H1831	
		H1832	
CDP1833	Hughes	H1833	
		H1834	
CDP1834	Hughes	H1833	
		H1834	
◆ CDP1835	Intel	2316	
		2716	
CDP1837	Hughes	H1837	
CDP1852	Hughes	H1852	
CDP1853	Hughes	H1853	
CDP1856	Hughes	H1856	
CDP1857	Hughes	H1857	
CDP1858	Hughes	H1858	
CDP1859	Hughes	H1859	
CDP65C51	CMD Micro	G65SC51	
CDP68HC05	Hitachi	HD6305	
CD22M3493	EDI	MT8812	
	Mitel	MT8812	
	SGS-Thomson	M093	
		M3493	
	SiliconSys	SSI78A093	
CD22M3494	Mitel	MT8816	
	SGS-Thomson	M3494	
CD22100	Motorola	MC142100	
CD22101	Motorola	MC142101	
CD22202	**SiliconSys**	**SSI75T202**	**(3781)**
CD22203	**SiliconSys**	**SSI75T203**	**(3781)**
CD22204	Motorola	MC145436	
	SiliconSys	**SSI75T204**	**(3781)**
CD22354	National	TP3054	
	SGS-Thomson	ETC5054	
	TI	TP3054	
CD22357	National	TP3057	
	TI	TP3057	
CD22859	GEC Plessey	MV5089	
CD4000B	Ideal Semi	ISI74000B	
CD4001	GoldStar	GD4001	
CD4001B	Ideal Semi	ISI74001B	
CD4002	GoldStar	GD4002	
CD4002B	Ideal Semi	ISI74002B	
CD4006	GoldStar	GD4006	
CD4007	GoldStar	GD4007	
CD4007UB	Ideal Semi	ISI74007UB	
CD4008	GoldStar	GD4008	
CD4008B	Ideal Semi	ISI74008B	
CD40106	GoldStar	GD40014	
CD4011	GoldStar	GD4011	
CD4011B	Ideal Semi	ISI74011B	
CD4012	GoldStar	GD4012	
CD4012B	Ideal Semi	ISI74012B	
CD4013	GoldStar	GD4013	
CD4013B	Ideal Semi	ISI74013B	
CD4014	GoldStar	GD4014	
CD4015	GoldStar	GD4015	
CD4016	GoldStar	GD4016	
	TI	TLC4016	
	Unitrode	PIC7516	
CD4016B	Ideal Semi	ISI74016B	
CD4017	GoldStar	GD4017	
CD4017B	Ideal Semi	ISI74017B	
CD4018	GoldStar	GD4018	
CD4018B	Ideal Semi	ISI74018B	
CD40182	GoldStar	GD4582	
CD4019	GoldStar	GD4019	
		GD40194	
CD4019B	Ideal Semi	ISI74019B	
			(Continued)
CD40192	GoldStar	GD40192	
CD40193	GoldStar	GD40139	
CD4020	GoldStar	GD4020	
CD4020B	Ideal Semi	ISI74020B	
CD4021	GoldStar	GD4021	
CD4022	GoldStar	GD4022	
CD4023	GoldStar	GD4023	
CD4023B	Ideal Semi	ISI74023B	
CD4024	GoldStar	GD4024	
CD4025	GoldStar	GD4025	
CD4025B	Ideal Semi	ISI74025B	
CD4027	GoldStar	GD4027	
CD4027B	Ideal Semi	ISI74027B	
CD4028	GoldStar	GD4028	
CD4028B	Ideal Semi	ISI74028B	
CD4029	GoldStar	GD4029	
CD4029B	Ideal Semi	ISI74029B	
CD4030	GoldStar	GD4030	
CD4030B	Ideal Semi	ISI74030B	
CD4034	GoldStar	GD4034	
CD4035	GoldStar	GD4035	
CD4035B	Ideal Semi	ISI74035B	
CD4040	GoldStar	GD4040	
CD4040B	Ideal Semi	ISI74040B	
CD4041	GoldStar	GD4041	
CD4042	GoldStar	GD4042	
CD4042B	Ideal Semi	ISI74042B	
CD4043	GoldStar	GD4043	
CD4044	GoldStar	GD4044	
CD4046	GoldStar	GD4046	
CD4046B	Ideal Semi	ISI74046B	
CD4047	GoldStar	GD4047	
CD4047B	Ideal Semi	ISI74047B	
CD4049	GoldStar	GD4049	
CD4049UB	Ideal Semi	ISI74049UB	
CD4050	GoldStar	GD4050	
CD4050B	Ideal Semi	ISI74050B	
CD4051	GoldStar	GD4051	
CD4051B	Ideal Semi	ISI74051B	
CD4052	GoldStar	GD4052	
CD4052B	Ideal Semi	ISI74052B	
CD4053	GoldStar	GD4053	
CD4053B	Ideal Semi	ISI74053B	
CD4059B	Ideal Semi	ISI74059A	
CD4060B	Ideal Semi	ISI74060B	
CD4066	GoldStar	GD4066	
	Raytheon	TL4066	
	TI	TLC4066	
CD4066B	Ideal Semi	ISI74066B	
CD4067	GoldStar	GD4067	
CD4068	GoldStar	GD4068	
CD4069	GoldStar	GD4069	
CD4069UB	Ideal Semi	ISI74069UB	
CD4070	GoldStar	GD4070	
CD4071	GoldStar	GD4071	
CD4071B	Ideal Semi	ISI74071B	
CD4072B	Ideal Semi	ISI74072B	
CD4073B	Ideal Semi	ISI74073	
CD4075	GoldStar	GD4075	
CD4076	GoldStar	GD4076	
CD4077	GoldStar	GD4077	
CD4077B	Ideal Semi	ISI74077B	
CD4078	GoldStar	GD4078	
CD4081	GoldStar	GD4081	
CD4085	GoldStar	GD4085	
CD4086	GoldStar	GD4086	
CD4093	GoldStar	GD4093	
CD4099	GoldStar	GD4724	
CD4510	GoldStar	GD4510	
CD4511	GoldStar	GD4511	
CD4514	GoldStar	GD4514	
CD4516	GoldStar	GD4516	
CD4518	GoldStar	GD4518	
CD4520	GoldStar	GD4520	
CD4528	GoldStar	GD4528	
CD4532	GoldStar	GD4532	
CD4555	GoldStar	GD4555	
CD4556	GoldStar	GD4556	
CD54ACT00	National	54ACT00	
CD54ACT02	National	54ACT02	
CD54ACT04	National	54ACT04	
CD54ACT05	Harris	CD54ACT08	
	National	54ACT08	
CD54ACT08	Harris	CD54ACT05	
	National	54ACT08	
CD54ACT10	National	54ACT10	
CD54ACT112	National	54ACT112	
	TI	54ACT11194	
CD54ACT138	National	54ACT138	
CD54ACT139	National	54ACT139	
CD54ACT151	National	54ACT14	
		54ACT151	
CD54ACT153	National	54ACT153	
			(Continued)
CD54ACT157	National	54ACT157	
CD54ACT158	National	54ACT158	
CD54ACT161	National	54ACT161	
CD54ACT163	National	54ACT163	
CD54ACT164	National	54ACT164	
CD54ACT174	National	54ACT169	
		54ACT174	
◆ CD54ACT175	National	54ACT175	
CD54ACT191	Harris	CD54ACT193	
CD54ACT193	Harris	CD54ACT191	
CD54ACT20	Harris	CD54ACT238	
CD54ACT238	Harris	CD54ACT20	
CD54ACT240	National	54ACT240	
CD54ACT241	National	54ACT241	
CD54ACT244	National	54ACT244	
CD54ACT245	National	54ACT245	
CD54ACT251	National	54ACT251	
CD54ACT253	National	54ACT253	
CD54ACT257	National	54ACT257	
CD54ACT258	National	54ACT258	
CD54ACT273	National	54ACT2708	
		54ACT273	
CD54ACT280	National	54ACT280	
CD54ACT283	National	54ACT283	
CD54ACT299	National	54ACT299	
CD54ACT32	National	54ACT32	
CD54ACT323	National	54ACT323	
CD54ACT373	National	54ACT368	
		54ACT373	
CD54ACT374	National	54ACT374	
CD54ACT534	National	54ACT534	
CD54ACT540	National	54ACT540	
CD54ACT541	National	54ACT541	
CD54ACT563	National	54ACT563	
CD54ACT564	National	54ACT564	
CD54ACT573	National	54ACT573	
CD54ACT574	National	54ACT574	
◆ CD54ACT574A	Harris	CD54ACT574	
	National	54ACT574	
◆ CD54ACT646	National	54ACT646	
CD54ACT7060	Harris	CD54ACT7061	
CD54ACT7061	Harris	CD54ACT7060	
◆ CD54ACT7202	National	54ACT725	
CD54ACT74	National	54ACT74	
◆ CD54ACT7402	Harris	CD54ACT7623	
CD54ACT7651	National	54ACT818	
CD54ACT86	National	54ACT85	
CD54AC00	National	54ACT899	
		54AC00	
CD54AC02	National	54AC02	
CD54AC04	National	54AC04	
CD54AC05	GoldStar	54AC05	
CD54AC08	National	54AC08	
CD54AC10	National	54AC10	
CD54AC109	National	54AC109	
CD54AC112	National	54AC112	
	TI	54AC11194	
CD54AC138	National	54AC125	
		54AC138	
CD54AC139	National	54AC139	
CD54AC151	National	54AC14	
		54AC151	
CD54AC153	National	54AC153	
CD54AC157	National	54AC157	
CD54AC158	National	54AC158	
CD54AC161	National	54AC161	
CD54AC163	National	54AC163	
CD54AC164	National	54AC164	
CD54AC174	National	54AC174	
◆ CD54AC175	National	54AC175	
CD54AC191	National	54AC191	
CD54AC193	Harris	CD54AC20	
	National	54AC20	
CD54AC20	Harris	CD54AC193	
	National	54AC20	
CD54AC238	Harris	CD54AC240	
	National	54AC240	
CD54AC240	Harris	CD54AC238	
	National	54AC240	
CD54AC241	National	54AC241	
CD54AC244	National	54AC244	
CD54AC245	National	54AC245	
CD54AC251	National	54AC251	
CD54AC253	National	54AC253	
CD54AC257	National	54AC257	
CD54AC258	National	54AC258	
CD54AC273	National	54AC273	
			(Continu

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
CD54AC280	National	54AC280	
CD54AC283	National	54AC283	
CD54AC299	National	54AC299	
CD54AC32	National	54AC32	
CD54AC373	National	54AC350	
		54AC373	
CD54AC374	National	54AC374	
CD54AC533	Harris	CD54AC534	
CD54AC534	Harris	CD54AC533	
CD54AC540	National	54AC540	
CD54AC541	National	54AC541	
CD54AC574	National	54AC574	
CD54AC623	National	54AC646	
CD54AC646	Harris	CD54AC623	
	National	54AC646	
CD54AC647	National	54AC648	
CD54AC648	National	54AC648	
CD54AC7060	Harris	CD54AC7061	
CD54AC7061	Harris	CD54AC7060	
CD54AC7202	Harris	CD54AC74	
	National	54AC74	
CD54AC74	National	54AC74	
CD54AC7402	Harris	CD54AC7623	
CD54HCT00	GoldStar	GD54HCT00	
	Ideal Semi	**54HCTLS86**	**(3643)**
	Motorola	MC54HCT00A	
	National	MM54HCT00	
	Rochester	54HCT00	
CD54HCT00	Rochester	54HCT00	
CD54HCT02	GoldStar	GD54HCT01	
		GD54HCT02	
CD54HCT03	GoldStar	GD54HCT03	
	National	MM54HCT03	
CD54HCT04	GoldStar	GD54HCT04	
	Motorola	MC54HCT04A	
	National	MM54HCT04	
	Rochester	54HCT04	
	TI	SN54HCT04	
CD54HCT08	GoldStar	GD54HCT08	
	Motorola	MC54HCT08A	
	National	MM54HCT08	
CD54HCT10	GoldStar	GD54HCT09	
		GD54HCT10	
CD54HCT107	Harris	CD54HCT109	
	National	MM54HCT109	
CD54HCT109	Harris	CD54HCT107	
	National	MM54HCT109	
CD54HCT11	GoldStar	GD54HCT11	
CD54HCT112	National	MM54HCT112	
CD54HCT123	GoldStar	GD54HCT125	
	Harris	CD54HCT125	
CD54HCT125	GoldStar	GD54HCT125	
	Harris	CD54HCT123	
CD54HCT126	GoldStar	GD54HCT126	
CD54HCT132	GoldStar	GD54HCT132	
CD54HCT137	GEC Plessey	54HCT137SOS	
	GoldStar	GD54HCT137	
	TI	SN54HCT137	
CD54HCT138	GEC Plessey	54HCT138SOS	
	GoldStar	GD54HCT138	
	Motorola	MC54HCT138A	
	National	MM54HCT138	
	TI	SN54HCT138	
CD54HCT139	GEC Plessey	54HCT139SOS	
	GoldStar	GD54HCT139	
	National	MM54HCT139	
CD54HCT14	Motorola	MC54HCT14A	
CD54HCT147	GoldStar	GD54HCT147	
	National	MM54HCT147	
CD54HCT151	GoldStar	GD54HCT151	
	National	MM54HCT149	
		MM54HCT151	
CD54HCT153	GoldStar	GD54HCT153	
	National	MM54HCT153	
CD54HCT154	GoldStar	GD54HCT154	
CD54HCT157	GoldStar	GD54HCT157	
	Motorola	MC54HCT157A	
	National	MM54HCT157	
D54HCT158	GoldStar	GD54HCT158	
	Motorola	MC54HCT158A	
	National	MM54HCT158	
D54HCT160	GoldStar	GD54HCT160	
D54HCT161	GoldStar	GD54HCT161	
	Motorola	MC54HCT161A	
D54HCT162	GoldStar	GD54HCT162	
D54HCT163	GoldStar	GD54HCT163	
	Motorola	MC54HCT163A	
D54HCT164	GoldStar	GD54HCT164	
	National	MM54HCT164	
D54HCT165	GoldStar	GD54HCT165	
D54HCT166	National	MM54HCT166	
D54HCT173	GoldStar	GD54HCT173	
CD54HCT174	GoldStar	GD54HCT174	
	Motorola	MC54HCT174A	
CD54HCT175	GoldStar	GD54HCT175	
CD54HCT181	Harris	CD54HCT182	
CD54HCT182	Harris	CD54HCT181	
CD54HCT190	GoldStar	GD54HCT190	
	National	54HCT190	
CD54HCT191	GoldStar	GD54HCT191	
	National	MM54HCT191	
◆ CD54HCT191	Rochester	54HCT191	
CD54HCT192	GoldStar	GD54HCT192	
	National	MM54HCT192	
CD54HCT193	National	MM54HCT193	
CD54HCT194	Harris	CD54HCT195	
CD54HCT195	Harris	CD54HCT194	
CD54HCT20	GoldStar	GD54HCT20	
CD54HCT21	GoldStar	GD54HCT21	
CD54HCT221	GoldStar	GD54HCT221	
CD54HCT237	GEC Plessey	54HCT237SOS	
	TI	SN54HCT237	
CD54HCT238	GEC Plessey	54HCT238SOS	
	TI	SN54HCT238	
CD54HCT240	GEC Plessey	54HCT239SOS	
		54HCT240SOS	
	Motorola	MC54HCT240A	
	National	MM54HCT240	
	TI	SN54HCT240	
CD54HCT241	GEC Plessey	54HCT241SOS	
	GoldStar	GD54HCT241	
	Motorola	MC54HCT241A	
	National	MM54HCT241	
	TI	SN54HCT241	
CD54HCT242	Harris	CD54HCT243	
CD54HCT243	Harris	CD54HCT242	
CD54HCT244	GEC Plessey	54HCT244SOS	
	GoldStar	GD54HCT244	
	Motorola	MC54HCT244A	
	National	MM54HCT244	
	TI	SN54HCT244	
CD54HCT245	GEC Plessey	54HCT245SOS	
	GoldStar	GD54HCT245	
	Motorola	MC54HCT245A	
	National	MM54HCT245	
	TI	SN54HCT245	
CD54HCT251	National	MM54HCT251	
CD54HCT253	National	MM54HCT253	
CD54HCT257	GoldStar	GD54HCT257	
	National	MM54HCT257	
CD54HCT258	National	MM54HCT258	
CD54HCT259	GoldStar	GD54HCT27	
	Harris	CD54HCT27	
CD54HCT27	GoldStar	GD54HCT27	
	Harris	CD54HCT259	
CD54HCT273	GoldStar	GD54HCT273	
	Motorola	MC54HCT273A	
	National	MM54HCT273	
	Rochester	54HCT273	
◆ CD54HCT273	Rochester	54HCT273	
CD54HCT280	GoldStar	GD54HCT280	
CD54HCT283	Harris	CD54HCT297	
CD54HCT297	Harris	CD54HCT283	
CD54HCT299	GoldStar	GD54HCT299	
CD54HCT30	GoldStar	GD54HCT30	
CD54HCT32	GoldStar	GD54HCT32	
	Motorola	MC54HCT32A	
	National	MM54HCT32	
CD54HCT354	Harris	CD54HCT356	
CD54HCT356	Harris	CD54HCT354	
CD54HCT365	GoldStar	GD54HCT365	
CD54HCT366	GoldStar	GD54HCT366	
CD54HCT367	GoldStar	GD54HCT367	
CD54HCT368	GoldStar	GD54HCT368	
CD54HCT373	GEC Plessey	54HCT373SOS	
	GoldStar	GD54HCT373	
	Motorola	MC54HCT373A	
	National	MM54HCT373	
	TI	SN54HCT373	
CD54HCT374	GEC Plessey	54HCT374SOS	
	GoldStar	GD54HCT374	
	Motorola	MC54HCT374A	
	National	MM54HCT374	
	TI	SN54HCT374	
CD54HCT377	Philips	54HCT384	
◆ CD54HCT384	Harris	CD54HCT377	
	Philips	54HCT384	
CD54HCT390	GoldStar	GD54HCT393	
	Harris	CD54HCT393	
CD54HCT393	GoldStar	GD54HCT393	
	Harris	CD54HCT390	
CD54HCT4002	Harris	CD54HCT40102	
CD54HCT40102	Harris	CD54HCT4002	
CD54HCT40103	Harris	CD54HCT40104	
CD54HCT40104	Harris	CD54HCT40103	
CD54HCT40105	Harris	CD54HCT4015	
CD54HCT4015	Harris	CD54HCT40105	
◆ CD54HCT4016	Harris	CD54HCT4017	
CD54HCT4020	Harris	CD54HCT4024	
CD54HCT4024	Harris	CD54HCT4020	
CD54HCT4046	Harris	CD54HCT4046A	
CD54HCT4046A	Harris	CD54HCT4046	
CD54HCT4051	Harris	CD54HCT4052	
CD54HCT4052	Harris	CD54HCT4051	
CD54HCT4053	Harris	CD54HCT4059	
CD54HCT4059	Harris	CD54HCT4053	
CD54HCT4060	Harris	CD54HCT4066	
CD54HCT4066	Harris	CD54HCT4060	
CD54HCT4067	Harris	CD54HCT4075	
CD54HCT4075	Harris	CD54HCT4067	
CD54HCT4094	GoldStar	GD54HCT42	
	Harris	CD54HCT42	
CD54HCT42	GoldStar	GD54HCT42	
	Harris	CD54HCT4094	
CD54HCT423	Harris	CD54HCT4316	
CD54HCT4316	Harris	CD54HCT423	
◆ CD54HCT4353	Harris	CD54HCT4510	
CD54HCT4511	Harris	CD54HCT4514	
CD54HCT4514	Harris	CD54HCT4511	
CD54HCT4515	Harris	CD54HCT4516	
CD54HCT4516	Harris	CD54HCT4515	
CD54HCT4518	Harris	CD54HCT4520	
CD54HCT4520	Harris	CD54HCT4518	
CD54HCT4538	Harris	CD54HCT4543	
CD54HCT4543	Harris	CD54HCT4538	
CD54HCT533	GEC Plessey	54HCT533SOS	
	GoldStar	GD54HCT533	
	Motorola	MC54HCT533A	
	National	MM54HCT533	
	Rochester	54HCT533	
◆ CD54HCT533	Rochester	54HCT533	
CD54HCT534	GEC Plessey	54HCT534SOS	
	GoldStar	GD54HCT534	
	Motorola	MC54HCT534A	
	National	MM54HCT534	
CD54HCT540	GEC Plessey	54HCT540SOS	
	Motorola	MC54HCT540	
	National	MM54HCT540	
	TI	SN54HCT540	
CD54HCT541	GEC Plessey	54HCT541SOS	
	Motorola	MC54HCT541	
	National	MM54HCT541	
	TI	SN54HCT541	
CD54HCT563	GEC Plessey	54HCT563SOS	
CD54HCT564	GEC Plessey	54HCT564SOS	
CD54HCT573	GEC Plessey	54HCT573SOS	
	Motorola	MC54HCT573A	
CD54HCT574	GEC Plessey	54HCT574SOS	
	Motorola	MC54HCT574A	
CD54HCT583	GoldStar	GD54HCT58	
CD54HCT597	Rochester	54HCT620	
CD54HCT640	Motorola	MC54HCT640A	
	National	MM54HCT640	
	Rochester	54HCT640	
◆ CD54HCT640	Rochester	54HCT640	
CD54HCT643	National	MM54HCT643	
	Rochester	54HCT643	
◆ CD54HCT643	Rochester	54HCT643	
CD54HCT646	GoldStar	GD54HCT646	
CD54HCT648	GoldStar	GD54HCT648	
CD54HCT670	Harris	CD54HCT688	
	National	MM54HCT688	
CD54HCT688	Harris	CD54HCT670	
	National	MM54HCT688	
◆ CD54HCT7030	Harris	CD54HCT7038	
◆ CD54HCT7046	Harris	CD54HCT7046A	
CD54HCT73	GoldStar	GD54HCT74	
	Harris	CD54HCT74	
	National	MM54HCT74	
	Rochester	54HCT74	
CD54HCT74	GoldStar	GD54HCT74	
	Harris	CD54HCT73	
	National	MM54HCT74	
	Rochester	54HCT74	
CD54HCT75	National	MM54HCT76	
CD54HCT85	GoldStar	GD54HCT86	
	Harris	CD54HCT86	
CD54HCT86	GoldStar	GD54HCT86	
	Harris	CD54HCT85	
CD54HCT93	GoldStar	GD54HC00	
	Harris	CD54HC00	
	Motorola	MC54HC00A	
	National	MM54HC00	
	TI	SN54HC00	
CD54HC00	GoldStar	GD54HC00	
	Harris	CD54HCT93	
	Motorola	MC54HC00A	
	National	MM54HC00	
	TI	SN54HC00	
CD54HC02	GoldStar	GD54HC01	
		GD54HC02	
	Motorola	MC54HC02A	
	National	MM54HC02	
	TI	SN54HC02	
CD54HC03	GoldStar	GD54HC03	
	Motorola	MC54HC03A	
	National	MM54HC03	
	TI	SN54HC03	
CD54HC04	GoldStar	GD54HC04	
	Motorola	MC54HC04A	
	National	MM54HC04	
	TI	SN54HC04	
CD54HC08	GoldStar	GD54HC08	
	Motorola	MC54HC08A	
	National	MM54HC08	
	TI	SN54HC08	
CD54HC10	GoldStar	GD54HC10	
	Motorola	MC54HC10	
	National	MM54HC10	
	TI	SN54HC10	
CD54HC107	Motorola	MC54HC107	
	National	MM54HC107	
	Rochester	54HC107	
	TI	SN54HC107	
◆ CD54HC107	Rochester	54HC107	
CD54HC109	Motorola	MC54HC109	
	National	MM54HC109	
	TI	SN54HC109	
CD54HC11	GoldStar	GD54HC11	
	Motorola	MC54HC11	
	National	MM54HC11	
	Rochester	54HC11	
	TI	SN54HC11	
◆ CD54HC11	Rochester	54HC11	
CD54HC112	Motorola	MC54HC112	
	National	MM54HC112	
	TI	SN54HC112	
CD54HC123	National	MM54HC123	
		MM54HC123A	
CD54HC125	GoldStar	GD54HC125	
	Motorola	MC54HC125A	
	National	MM54HC125	
	TI	SN54HC125	
CD54HC126	GoldStar	GD54HC126	
	Motorola	MC54HC126A	
	National	MM54HC126	
	TI	SN54HC126	
CD54HC132	GoldStar	GD54HC132	
	Motorola	MC54HC132A	
	National	MM54HC132	
	TI	SN54HC132	
CD54HC137	GoldStar	GD54HC137	
	Motorola	MC54HC137	
	National	MM54HC137	
	TI	SN54HC137	
CD54HC138	GoldStar	GD54HC138	
	Motorola	MC54HC138A	
	National	MM54HC138	
	TI	SN54HC138	
CD54HC139	GoldStar	GD54HC139	
	Motorola	MC54HC139A	

(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
CD54HC139			(Cont'd)
	National	MM54HC139	
	TI	SN54HC139	
CD54HC14	Motorola	MC54HC14A	
	National	MM54HC14	
	TI	SN54HC14	
CD54HC147	GoldStar	GD54HC147	
	Motorola	MC54HC147	
	National	MM54HC147	
CD54HC151	GoldStar	GD54HC151	
	Motorola	MC54HC151	
	National	MM54HC149	
		MM54HC151	
	TI	SN54HC151	
CD54HC153	GoldStar	GD54HC153	
	Motorola	MC54HC153	
	National	MM54HC153	
	Rochester	54HC153	
	TI	SN54HC153	
◆ CD54HC153	Rochester	54HC153	
CD54HC154	GoldStar	GD54HC154	
	Motorola	MC54HC154	
	National	MM54HC154	
CD54HC157	GoldStar	GD54HC157	
	Motorola	MC54HC157A	
	National	MM54HC157	
	TI	SN54HC157	
CD54HC158	GoldStar	GD54HC158	
	National	MM54HC158	
	Rochester	54HC158	
	TI	SN54HC158	
◆ CD54HC158	Rochester	54HC158	
CD54HC160	GoldStar	GD54HC160	
	Motorola	MC54HC160	
	National	MM54HC160	
	TI	SN54HC160	
CD54HC161	GoldStar	GD54HC161	
	Motorola	MC54HC161A	
	National	MM54HC161	
	TI	SN54HC161	
CD54HC162	GoldStar	GD54HC162	
	Motorola	MC54HC162	
	National	MM54HC162	
	Rochester	54HC162	
◆ CD54HC162	Rochester	54HC162	
CD54HC163	GoldStar	GD54HC163	
	Motorola	MC54HC163A	
	National	MM54HC163	
	TI	SN54HC163	
CD54HC164	GoldStar	GD54HC164	
	Motorola	MC54HC164	
	National	MM54HC164	
	TI	SN54HC164	
CD54HC165	GoldStar	GD54HC165	
	Motorola	MC54HC165	
	National	MM54HC165	
	TI	SN54HC165	
CD54HC166	National	MM54HC166	
	TI	SN54HC166	
CD54HC173	GoldStar	GD54HC173	
	Motorola	MC54HC173	
	National	MM54HC173	
	Rochester	54HC173	
	TI	SN54HC173	
◆ CD54HC173	Rochester	54HC173	
CD54HC174	GoldStar	GD54HC174	
	Motorola	MC54HC174A	
	National	MM54HC174	
	TI	SN54HC174	
CD54HC175	GoldStar	GD54HC175	
	Motorola	MC54HC175	
	National	MM54HC175	
	TI	SN54HC175	
CD54HC181	National	MM54HC181	
	Rochester	54HC181	
◆ CD54HC181	Rochester	54HC181	
CD54HC182	National	MM54HC182	
CD54HC190	GoldStar	GD54HC190	
	National	MM54HC190	
	TI	SN54HC190	
CD54HC191	GoldStar	GD54HC191	
	National	MM54HC191	
	TI	SN54HC191	
CD54HC192	GoldStar	GD54HC192	
	National	MM54HC192	
	TI	SN54HC192	
CD54HC193	National	MM54HC193	
	TI	SN54HC193	
CD54HC194	Motorola	MC54HC194	
	National	MM54HC194	
	Rochester	54HC194	
	TI	SN54HC194	
◆ CD54HC194	Rochester	54HC194	(Continued)
CD54HC195	Motorola	MC54HC195	
	National	MM54HC195	
	TI	SN54HC195	
CD54HC20	GoldStar	GD54HC20	
	Motorola	MC54HC20	
	National	MM54HC20	
	TI	SN54HC20	
CD54HC21	GoldStar	GD54HC21	
	TI	SN54HC21	
CD54HC221	GoldStar	GD54HC221	
	National	MM54HC221A	
CD54HC237	Motorola	MC54HC237	
	National	MM54HC237	
	Rochester	54HC237	
	TI	SN54HC237	
◆ CD54HC237	Rochester	54HC237	
CD54HC238	TI	SN54HC238	
CD54HC240	Motorola	MC54HC240A	
	National	MM54HC240	
	TI	SN54HC240	
CD54HC241	GoldStar	GD54HC241	
	Motorola	MC54HC241A	
	National	MM54HC241	
	Rochester	54HC241	
	TI	SN54HC241	
◆ CD54HC241	Rochester	54HC241	
CD54HC242	Motorola	MC54HC242	
	National	MM54HC242	
	Rochester	54HC242	
	TI	SN54HC242	
◆ CD54HC242	Rochester	54HC242	
CD54HC243	National	MM54HC243	
	Rochester	54HC243	
	TI	SN54HC243	
◆ CD54HC243	Rochester	54HC243	
CD54HC244	GoldStar	GD54HC244	
	Motorola	MC54HC244A	
	National	MM54HC244	
	TI	SN54HC244	
CD54HC245	GoldStar	GD54HC245	
	Motorola	MC54HC245A	
	National	MM54HC245	
		MM54HC245A	
	TI	SN54HC245	
CD54HC251	Motorola	MC54HC251	
	National	MM54HC251	
	Rochester	54HC251	
	TI	SN54HC251	
CD54HC253	Motorola	MC54HC253	
	National	MM54HC253	
	Rochester	54HC253	
	TI	SN54HC253	
◆ CD54HC253	Rochester	54HC253	
CD54HC257	GoldStar	GD54HC257	
	Motorola	MC54HC257	
	National	MM54HC257	
	TI	SN54HC257	
CD54HC258	National	MM54HC258	
	TI	SN54HC258	
CD54HC259	Motorola	MC54HC259	
	National	MM54HC259	
	TI	SN54HC259	
◆ CD54HC266	Motorola	MC54HC266	
	National	MM54HC266	
	Rochester	54HC266	
	TI	SN54HC266	
CD54HC27	GoldStar	GD54HC27	
	Motorola	MC54HC27	
	National	MM54HC27	
	TI	SN54HC27	
CD54HC273	GoldStar	GD54HC273	
	Motorola	MC54HC273A	
	National	MM54HC273	
	TI	SN54HC273	
CD54HC280	GoldStar	GD54HC280	
	Motorola	MC54HC280	
	National	MM54HC280	
	TI	SN54HC280	
CD54HC283	National	MM54HC283	
CD54HC297	National	MM54HC298	
CD54HC299	GoldStar	GD54HC299	
	Motorola	MC54HC299	
	National	MM54HC299	
CD54HC30	GoldStar	GD54HC30	
	Motorola	MC54HC30	
	National	MM54HC30	
	TI	SN54HC30	
CD54HC32	GoldStar	GD54HC32	
	Motorola	MC54HC32A	
	National	MM54HC32	
	TI	SN54HC32	
CD54HC354	Motorola	MC54HC354	
	National	MM54HC354	
	Rochester	54HC354	
◆ CD54HC354	Rochester	54HC354	
CD54HC356	National	MM54HC356	
CD54HC365	GoldStar	GD54HC365	
	Motorola	MC54HC365	
	National	MM54HC365	
	TI	SN54HC365	
CD54HC366	GoldStar	GD54HC366	
	Motorola	MC54HC366	
	National	MM54HC366	
	Rochester	54HC366	
	TI	SN54HC366	
◆ CD54HC366	Rochester	54HC366	
CD54HC367	GoldStar	GD54HC367	
	Motorola	MC54HC367	
	National	MM54HC367	
	TI	SN54HC367	
CD54HC368	GoldStar	GD54HC368	
	Motorola	MC54HC368	
	National	MM54HC368	
	Rochester	54HC368	
	TI	SN54HC368	
◆ CD54HC368	Rochester	54HC368	
CD54HC373	GoldStar	GD54HC373	
	Motorola	MC54HC373A	
	National	MM54HC373	
	TI	SN54HC373	
CD54HC374	GoldStar	GD54HC374	
	Motorola	MC54HC374A	
	National	MM54HC374	
	TI	SN54HC374	
CD54HC377	TI	SN54HC377	
CD54HC390	Motorola	MC54HC390	
	National	MM54HC390	
	TI	SN54HC390	
CD54HC393	GoldStar	GD54HC393	
	Motorola	MC54HC393	
	National	MM54HC393	
	TI	SN54HC393	
CD54HC4002	Motorola	MC54HC4002	
	National	MM54HC4002	
	Rochester	54HC4002	
	TI	SN54HC4002	
◆ CD54HC4002	Rochester	54HC4002	
CD54HC40102			
	Harris	CD54HC40103	
CD54HC40103			
	Harris	CD54HC40102	
CD54HC40104			
	Harris	CD54HC40105	
CD54HC40105			
	Harris	CD54HC40104	
CD54HC4015	Harris	CD54HC4016	
	Motorola	MC54HC4016	
	National	MM54HC4016	
	Rochester	54HC4016	
	TI	SN54HC4016	
CD54HC4016	Harris	CD54HC4015	
	Motorola	MC54HC4016	
	National	MM54HC4016	
	Rochester	54HC4016	
	TI	SN54HC4016	
CD54HC4017	Motorola	MC54HC4017	
	National	MM54HC4017	
CD54HC4020	Motorola	MC54HC4020	
	National	MM54HC4020	
	TI	SN54HC4020	
CD54HC4024	Motorola	MC54HC4024	
	TI	SN54HC4024	
CD54HC4040	Motorola	MC54HC4040	
	National	MM54HC4040	
	TI	SN54HC4040	
◆ CD54HC4046	Rochester	54HC4046	
CD54HC4046A			
	Motorola	MC54HC4046A	
	National	MM54HC4046	
	Rochester	54HC4046	
CD54HC4049	Motorola	MC54HC4049	
	National	MM54HC4049	
CD54HC4050	Motorola	MC54HC4050	
	National	MM54HC4050	
CD54HC4051	Motorola	MC54HC4051	
	National	MM54HC4051	
CD54HC4052	Motorola	MC54HC4052	
	National	MM54HC4052	
CD54HC4053	Motorola	MC54HC4053	
	National	MM54HC4053	
CD54HC4059	Harris	CD54HC4060	
	Motorola	MC54HC4060	
	National	MM54HC4060	
	Rochester	54HC4060	(Continued)
CD54HC4060	Harris	CD54HC4059	
	Motorola	MC54HC4060	
	National	MM54HC4060	
	Rochester	54HC4060	
◆ CD54HC4060	Rochester	54HC4060	
CD54HC4066	Motorola	MC54HC4066	
	National	MM54HC4066	
	Rochester	54HC4066	
	TI	SN54HC4066	
◆ CD54HC4066	Rochester	54HC4066	
CD54HC4067	Harris	CD54HC4075	
	Motorola	MC54HC4075	
	National	MM54HC4075	
	Rochester	54HC4075	
	TI	SN54HC4075	
CD54HC4075	Harris	CD54HC4067	
	Motorola	MC54HC4075	
	National	MM54HC4075	
	Rochester	54HC4075	
	TI	SN54HC4075	
◆ CD54HC4075	Rochester	54HC4075	
CD54HC4094	GoldStar	GD54HC42	
	Harris	CD54HC42	
	Motorola	MC54HC42	
	National	MM54HC42	
	TI	SN54HC42	
CD54HC42	GoldStar	GD54HC42	
	Harris	CD54HC4094	
	Motorola	MC54HC42	
	National	MM54HC42	
	TI	SN54HC42	
CD54HC423	National	MM54HC423A	
CD54HC4316	Motorola	MC54HC4316	
	National	MM54HC4316	
	Rochester	54HC4316	
CD54HC4351	Motorola	MC54HC4351	
CD54HC4352	Motorola	MC54HC4352	
CD54HC4353	Motorola	MC54HC4353	
CD54HC4511	Motorola	MC54HC4511	
	National	MM54HC4511	
CD54HC4514	Motorola	MC54HC4514	
	National	MM54HC4514	
◆ CD54HC4514	Rochester	54HC4514	
CD54HC4520	Harris	CD54HC4538	
	Motorola	MC54HC4538A	
	National	MM54HC4538	
CD54HC4538	Harris	CD54HC4520	
	Motorola	MC54HC4538A	
	National	MM54HC4538	
CD54HC4543	National	MM54HC4543	
◆ CD54HC4543	Rochester	54HC4543	
CD54HC533	GoldStar	GD54HC533	
	Motorola	MC54HC533A	
	National	MM54HC521	
		MM54HC533	
	TI	SN54HC533	
◆ CD54HC533	Rochester	54HC533	
CD54HC534	GoldStar	GD54HC534	
	Motorola	MC54HC534A	
	National	MM54HC534	
	TI	SN54HC534	
◆ CD54HC534	Rochester	54HC534	
CD54HC540	Motorola	MC54HC540	
	National	MM54HC540	
	TI	SN54HC540	
CD54HC541	Motorola	MC54HC541	
	National	MM54HC541	
	TI	SN54HC541	
CD54HC563	Motorola	MC54HC563	
	National	MM54HC563	
	TI	SN54HC563	
CD54HC564	Motorola	MC54HC564	
	National	MM54HC564	
	TI	SN54HC564	
CD54HC573	Motorola	MC54HC573A	
	National	MM54HC573	
	TI	SN54HC573	
CD54HC574	Motorola	MC54HC574A	
	National	MM54HC574	
	TI	SN54HC574	
CD54HC583	Motorola	MC54HC589	
	National	MM54HC589	
CD54HC597	Motorola	MC54HC597	
	National	MM54HC597	
◆ CD54HC597	Rochester	54HC597	
CD54HC640	Motorola	MC54HC640A	
	National	MM54HC640	
	TI	SN54HC640	
CD54HC643	National	MM54HC643	
	TI	SN54HC643	
◆ CD54HC643	Rochester	54HC643	
CD54HC646	GoldStar	GD54HC646	
	Motorola	MC54HC646	(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
54HC646			(Cont'd)
	National	MM54HC646	
	Rochester	54HC646	
54HC646	Rochester	54HC646	
54HC648	GoldStar	GD54HC648	
	Motorola	MC54HC648	
	National	MM54HC648	
54HC688	Motorola	MC54HC688	
	National	MM54HC688	
	TI	SN54HC688	
54HC7030	Harris	CD54HC7038	
54HC7046	Harris	CD54HC7046A	
54HC7266	Motorola	MC54HC7266	
	National	MM54HC7266	
54HC73	Motorola	MC54HC73	
	National	MM54HC73	
54HC74	GoldStar	GD54HC74	
	Motorola	MC54HC74A	
	National	MM54HC74	
	TI	SN54HC74	
54HC75	Motorola	MC54HC75	
	National	MM54HC75	
	TI	SN54HC75	
54HC85	Motorola	MC54HC85	
	National	MM54HC85	
	TI	SN54HC85A	
54HC86	GoldStar	GD54HC86	
	Motorola	MC54HC86	
	National	MM54HC86	
	TI	SN54HC86	
74ACT00	Motorola	MC74ACT00	
	National	74ACT00	
	Toshiba	**TC74ACT00**	**(3836)**
74ACT02	Motorola	MC74ACT02	
	National	74ACT02	
	Toshiba	**TC74ACT02**	**(3836)**
74ACT04	Motorola	MC74ACT04	
	National	74ACT04	
	Toshiba	**TC74ACT04**	**(3836)**
74ACT05	Motorola	MC74ACT05	
74ACT08	Motorola	MC74ACT08	
	Toshiba	**TC74ACT08**	**(3836)**
74ACT10	Motorola	MC74ACT10	
	National	74ACT10	
	Toshiba	**TC74ACT10**	**(3836)**
74ACT109	Motorola	MC74ACT109	
	National	74ACT109	
	Toshiba	**TC74ACT109**	**(3836)**
74ACT112	National	74ACT112	
	Toshiba	**TC74ACT112**	**(3836)**
74ACT138	IDT	IDT74FCT138	
	Motorola	MC74ACT138	
	National	74ACT138	
	Toshiba	**TC74ACT138**	**(3836)**
74ACT139	IDT	IDT74FCT139	
	Motorola	MC74ACT139	
	National	74ACT139	
	Toshiba	**TC74ACT139**	**(3836)**
74ACT14	Motorola	MC74ACT14	
	National	74ACT14	
	Toshiba	**TC74ACT14**	**(3836)**
74ACT151	IDT	IDT74FCT151	
	Motorola	MC74ACT151	
	National	74ACT151	
	Toshiba	**TC74ACT151**	**(3836)**
74ACT153	Motorola	MC74ACT153	
	National	74ACT153	
	Toshiba	TC74ACT153	
74ACT157	IDT	IDT74FCT157	
	Motorola	MC74ACT157	
	National	74ACT157	
	Toshiba	**TC74ACT157**	**(3836)**
74ACT158	Motorola	MC74ACT158	
	National	74ACT158	
	Toshiba	**TC74ACT158**	**(3836)**
74ACT161	IDT	IDT74FCT161	
	Motorola	MC74ACT160	
		MC74ACT161	
	National	74ACT161	
	Toshiba	**TC74ACT161**	**(3836)**
74ACT163	IDT	IDT74FCT163	
	Motorola	MC74ACT163	
	National	74ACT163	
	TI	74ACT16245	
	Toshiba	**TC74ACT163**	**(3836)**
			(Continued)
CD74ACT164	National	74ACT164	
	Toshiba	**TC74ACT164**	**(3836)**
CD74ACT174	Motorola	MC74ACT174	
	National	74ACT169	
		74ACT174	
	Toshiba	**TC74ACT174**	**(3836)**
CD74ACT175	National	74ACT175	
	Toshiba	**TC74ACT175**	**(3836)**
CD74ACT191	IDT	IDT74FCT191	
	Motorola	MC74ACT190	
CD74ACT193	IDT	IDT74FCT193	
	Motorola	MC74ACT194	
CD74ACT20	Motorola	MC74ACT20	
	Toshiba	**TC74ACT20**	**(3836)**
CD74ACT238	Harris	CD74ACT240	
	Motorola	MC74ACT240	
	National	74ACT240	
	Toshiba	**TC74ACT240**	**(3836)**
CD74ACT240	Harris	CD74ACT238	
	Motorola	MC74ACT240	
	National	74ACT240	
	Toshiba	**TC74ACT240**	**(3836)**
CD74ACT241	Motorola	MC74ACT241	
	National	74ACT241	
	Toshiba	**TC74ACT241**	**(3836)**
CD74ACT244	Motorola	MC74ACT244	
	National	74ACT244	
	Toshiba	**TC74ACT244**	**(3836)**
CD74ACT245	Motorola	MC74ACT245	
	National	74ACT245	
	Toshiba	**TC74ACT245**	**(3836)**
CD74ACT251	IDT	IDT74FCT251	
	Motorola	MC74ACT251	
	National	74ACT251	
	Toshiba	**TC74ACT251**	**(3836)**
CD74ACT253	Motorola	MC74ACT253	
	National	74ACT253	
	Toshiba	TC74ACT253	
CD74ACT257	IDT	IDT74FCT257	
	Motorola	MC74ACT256	
		MC74ACT257	
	National	74ACT257	
	Toshiba	**TC74ACT257**	**(3836)**
CD74ACT258	Motorola	MC74ACT258	
	National	74ACT258	
	Toshiba	**TC74ACT258**	**(3836)**
CD74ACT273	Motorola	MC74ACT273	
	National	74ACT273	
	Toshiba	**TC74ACT273**	**(3836)**
CD74ACT280	National	74ACT280	
	Toshiba	**TC74ACT280**	**(3836)**
CD74ACT283	National	74ACT283	
	Toshiba	**TC74ACT283**	**(3836)**
CD74ACT297	TI	SN74ACT29116	
CD74ACT299	IDT	IDT74FCT299	
	Motorola	MC74ACT299	
	National	74ACT299	
	Toshiba	**TC74ACT299**	**(3836)**
CD74ACT32	Motorola	MC74ACT32	
	National	74ACT32	
	Toshiba	**TC74ACT32**	**(3836)**
CD74ACT323	Motorola	MC74ACT323	
	National	74ACT323	
CD74ACT373	Motorola	MC74ACT373	
	National	74ACT373	
	Toshiba	**TC74ACT373**	**(3836)**
CD74ACT374	Motorola	MC74ACT374	
	National	74ACT374	
	Toshiba	**TC74ACT374**	**(3836)**
CD74ACT533	Motorola	MC74ACT533	
	Toshiba	**TC74ACT533**	**(3836)**
CD74ACT534	Motorola	MC74ACT534	
	National	74ACT534	
	Toshiba	**TC74ACT534**	**(3836)**
			(Continued)
CD74ACT540	Motorola	MC74ACT540	
	National	74ACT540	
	Toshiba	**TC74ACT540**	**(3836)**
CD74ACT541	Motorola	MC74ACT541	
	National	74ACT541	
	Toshiba	**TC74ACT541**	**(3836)**
CD74ACT563	Motorola	MC74ACT563	
	National	74ACT563	
	Toshiba	**TC74ACT563**	**(3836)**
CD74ACT564	Motorola	MC74ACT564	
	National	74ACT564	
	Toshiba	**TC74ACT564**	**(3836)**
CD74ACT573	Motorola	MC74ACT573	
	National	74ACT573	
	Toshiba	**TC74ACT573**	**(3836)**
CD74ACT574	Motorola	MC74ACT574	
	National	74ACT574	
	Toshiba	**TC74ACT574**	**(3836)**
CD74ACT623	Motorola	MC74ACT620	
		MC74ACT623	
CD74ACT646	Motorola	MC74ACT646	
	National	74ACT646	
	Toshiba	**TC74ACT646**	**(3836)**
CD74ACT647	Harris	CD74ACT648	
	Motorola	MC74ACT648	
	Toshiba	**TC74ACT648**	**(3836)**
CD74ACT648	Harris	CD74ACT647	
	Motorola	MC74ACT648	
	Toshiba	**TC74ACT648**	**(3836)**
CD74ACT649	Harris	CD74ACT651	
CD74ACT651	Harris	CD74ACT649	
CD74ACT652	Motorola	MC74ACT652	
CD74ACT653	Harris	CD74ACT654	
CD74ACT654	Harris	CD74ACT653	
CD74ACT7060	Harris	CD74ACT7061	
CD74ACT7061	Harris	CD74ACT7060	
◆ CD74ACT7202	National	74ACT725	
CD74ACT74	Motorola	MC74ACT74	
	National	74ACT74	
	Toshiba	**TC74ACT74**	**(3836)**
CD74ACT7623	Harris	CD74ACT7651	
CD74ACT7651	Harris	CD74ACT7623	
CD74ACT86	Motorola	MC74ACT86	
	Toshiba	**TC74ACT86**	**(3836)**
CD74AC00	Motorola	MC74AC00	
	National	74ACT899	
		74AC00	
	Toshiba	**TC74AC00**	**(3836)**
CD74AC02	Motorola	MC74AC02	
	National	74AC02	
	Toshiba	**TC74AC02**	**(3836)**
CD74AC04	Motorola	MC74AC04	
	National	74AC04	
	Toshiba	**TC74AC04**	**(3836)**
CD74AC05	Motorola	MC74AC05	
	Toshiba	**TC74AC05**	**(3836)**
CD74AC08	Motorola	MC74AC08	
	National	74AC08	
	Toshiba	**TC74AC08**	**(3836)**
CD74AC10	Motorola	MC74AC10	
	National	74AC10	
	Toshiba	**TC74AC10**	**(3836)**
CD74AC109	Motorola	MC74AC109	
	National	74AC109	
	Toshiba	**TC74AC109**	**(3836)**
CD74AC112	National	74AC112	
	Toshiba	**TC74AC112**	**(3836)**
CD74AC138	Motorola	MC74AC132	
		MC74AC138	
	National	74AC138	
	Toshiba	**TC74AC138**	**(3836)**
CD74AC139	Motorola	MC74AC139	
	National	74AC139	
	Toshiba	**TC74AC139**	**(3836)**
CD74AC14	Motorola	MC74AC14	
	National	74AC14	
	Toshiba	**TC74AC14**	**(3836)**
CD74AC151	Motorola	MC74AC151	
	National	74AC151	
	Toshiba	**TC74AC151**	**(3836)**
			(Continued)
CD74AC153	Motorola	MC74AC153	
	National	74AC153	
	Toshiba	**TC74AC153**	**(3836)**
CD74AC157	Motorola	MC74AC157	
	National	74AC157	
	Toshiba	**TC74AC157**	**(3836)**
CD74AC158	Motorola	MC74AC158	
	National	74AC158	
	Toshiba	**TC74AC158**	**(3836)**
CD74AC161	Motorola	MC74AC161	
	National	74AC161	
	Toshiba	**TC74AC161**	**(3836)**
CD74AC163	Motorola	MC74AC163	
	National	74AC163	
	Toshiba	**TC74AC163**	**(3836)**
CD74AC164	National	74AC164	
	Toshiba	**TC74AC164**	**(3836)**
CD74AC174	Motorola	MC74AC174	
	National	74AC174	
	Toshiba	**TC74AC174**	**(3836)**
CD74AC175	National	74AC175	
	Toshiba	**TC74AC175**	**(3836)**
CD74AC191	Motorola	MC74AC190	
	National	74AC191	
	Toshiba	**TC74AC191**	**(3836)**
CD74AC193	Motorola	MC74AC194	
CD74AC20	Motorola	MC74AC20	
	National	74AC20	
	Toshiba	TC74AC20	
CD74AC238	Harris	CD74AC240	
	Motorola	MC74AC240	
	National	74AC240	
	Toshiba	**TC74AC240**	**(3836)**
CD74AC240	Harris	CD74AC238	
	Motorola	MC74AC240	
	National	74AC240	
	Toshiba	**TC74AC240**	**(3836)**
CD74AC241	Motorola	MC74AC241	
	National	74AC241	
	Toshiba	**TC74AC241**	**(3836)**
CD74AC244	Motorola	MC74AC244	
	National	74AC244	
	Toshiba	**TC74AC244**	**(3836)**
CD74AC245	Motorola	MC74AC245	
	National	74AC245	
	Toshiba	**TC74AC245**	**(3836)**
CD74AC251	Motorola	MC74AC251	
	National	74AC251	
	Toshiba	**TC74AC251**	**(3836)**
CD74AC253	Motorola	MC74AC253	
	National	74AC253	
	Toshiba	**TC74AC253**	**(3836)**
CD74AC257	Motorola	MC74AC256	
		MC74AC257	
	National	74AC257	
	Toshiba	**TC74AC257**	**(3836)**
CD74AC258	Motorola	MC74AC258	
	National	74AC258	
	Toshiba	**TC74AC258**	**(3836)**
CD74AC273	Motorola	MC74AC273	
	National	74AC2708	
		74AC273	
	Toshiba	**TC74AC273**	**(3836)**
CD74AC280	National	74AC280	
	Toshiba	**TC74AC280**	**(3836)**
CD74AC283	National	74AC283	
	Toshiba	**TC74AC283**	**(3836)**
CD74AC297	Harris	CD74AC299	
	Motorola	MC74AC299	
	National	74AC299	
	Toshiba	**TC74AC299**	**(3836)**
CD74AC299	Harris	CD74AC297	
	Motorola	MC74AC299	
	National	74AC299	
	Toshiba	**TC74AC299**	**(3836)**
CD74AC32	Motorola	MC74AC32	
	National	74AC32	
	Toshiba	**TC74AC32**	**(3836)**
CD74AC323	**Toshiba**	**TC74AC323**	**(3836)**
CD74AC373	Motorola	MC74AC373	
	National	74AC373	
	Toshiba	**TC74AC373**	**(3836)**
CD74AC374	Motorola	MC74AC374	
	National	74AC374	
	Toshiba	**TC74AC374**	**(3836)**
CD74AC533	Motorola	MC74AC533	
	Toshiba	TC74AC533	
CD74AC534	Motorola	MC74AC534	
	Toshiba	**TC74AC534**	**(3836)**
CD74AC540	Motorola	MC74AC540	
	National	74AC540	
	Toshiba	**TC74AC540**	**(3836)**
			(Continued)

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◆ The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
CD74AC541	Motorola	MC74AC541	
	National	74AC541	
	Toshiba	**TC74AC541**	**(3836)**
CD74AC563	Motorola	MC74AC563	
	Toshiba	**TC74AC563**	**(3836)**
CD74AC564	Motorola	MC74AC564	
	Toshiba	**TC74AC564**	**(3836)**
CD74AC573	Motorola	MC74AC573	
	Toshiba	**TC74AC573**	**(3836)**
CD74AC574	Motorola	MC74AC574	
	National	74AC574	
	Toshiba	**TC74AC574**	**(3836)**
CD74AC623	Motorola	MC74AC623	
	Toshiba	**TC74AC623**	**(3836)**
CD74AC646	Motorola	MC74AC646	
	National	74AC646	
	Toshiba	**TC74AC646**	**(3836)**
CD74AC647	Harris	CD74AC648	
	Motorola	MC74AC648	
	National	74AC648	
	Toshiba	**TC74AC648**	**(3836)**
CD74AC648	Harris	CD74AC647	
	Motorola	MC74AC648	
	National	74AC648	
	Toshiba	**TC74AC648**	**(3836)**
CD74AC649	Harris	CD74AC651	
CD74AC651	Harris	CD74AC649	
CD74AC652	Motorola	MC74AC652	
CD74AC653	Harris	CD74AC654	
CD74AC654	Harris	CD74AC653	
CD74AC7060	Harris	CD74AC7061	
CD74AC7061	Harris	CD74AC7060	
CD74AC74	Motorola	MC74AC74	
	National	74AC74	
	Toshiba	**TC74AC74**	**(3836)**
CD74AC7623	Motorola	MC74AC810	
CD74AC86	Motorola	MC74AC86	
	National	74AC85	
		74AC86	
	Toshiba	**TC74AC86**	**(3836)**
CD74FCT240	IDT	IDT74FCT240	
	Mitsubishi	M74ALS240	
		M74F240	
	Motorola	MC74F240	
	National	DM74ALS240	
		DM74AS240	
		74F240	
	Philips	74ALS240	
		74F240	
	Quality Semi	QS74FCT240	
	TI	SN74ALS240	
		SN74AS240	
		SN74BCT240	
		SN74F240	
CD74FCT241	IDT	IDT74FCT241	
	Mitsubishi	M74ALS241	
		M74F241	
	Motorola	MC74F241	
	National	DM74ALS241	
		DM74AS241	
		74F241	
	Philips	74ALS241	
	Quality Semi	QS74FCT241	
	TI	SN74ALS241	
		SN74AS241	
		SN74BCT241	
		SN74F241	
CD74FCT244	IDT	IDT74FCT244	
	Mitsubishi	M74ALS244	
		M74F244	
	Motorola	MC74F244	
	National	DM74ALS244	
		DM74AS244	
		74F244	
	Philips	74ALS244	
		74F244	
	Quality Semi	QS74FCT244	
	TI	SN74ALS244	
		SN74AS244	
		SN74BCT244	
		SN74F244	
CD74FCT245	IDT	IDT74FCT245	
	Mitsubishi	M74ALS245	
		M74F245	
	Motorola	MC74F245	
	National	DM74ALS245	
		DM74AS245	
		74F245	
	Philips	74ALS245	
		74F245	
	Quality Semi	QS74FCT245	
	TI	SN74ALS245	
		SN74AS245	
			(Continued)
CD74FCT245	TI		(Cont'd)
		SN74BCT245	
		SN74F245	
CD74FCT273	IDT	IDT74FCT273	
	Mitsubishi	M74ALS273	
	Motorola	MC74F273	
	National	DM74ALS273	
		74F273	
	Philips	74ALS273	
		74F273	
	Quality Semi	QS74FCT273	
	TI	SN74ALS273	
		SN74F273	
CD74FCT2952			
	AMD	AM2952	
	IDT	IDT29FCT52	
	Quality Semi	QS29FCT52	
CD74FCT29520			
	AMD	AM29520	
	IDT	IDT29FCT520	
	Quality Semi	QS29FCT520	
CD74FCT29521			
	AMD	AM29521	
	IDT	IDT29FCT521	
	Quality Semi	QS29FCT521	
CD74FCT2953			
	AMD	AM2953	
	IDT	IDT29FCT53	
	Quality Semi	QS29FCT53	
CD74FCT373	IDT	IDT74FCT373	
	Mitsubishi	M74ALS374	
		M74F373	
	Motorola	MC74F373	
	National	DM74ALS373	
		DM74AS373	
		74F373	
	Philips	74ALS373	
		74F373	
	Quality Semi	QS74FCT373	
	TI	SN74ALS373	
		SN74AS373	
		SN74BCT373	
		SN74F373	
CD74FCT374	IDT	IDT74FCT374	
	Mitsubishi	M74ALS374	
		M74F374	
	Motorola	MC74F374	
	National	DM74ALS374	
		DM74AS374	
		74F374	
	Philips	74ALS374	
		74F374	
	Quality Semi	QS74FCT374	
	TI	SN74ALS374	
		SN74AS374	
		SN74BCT374	
		SN74F374	
CD74FCT377	IDT	IDT74FCT377	
	Quality Semi	QS74FCT377	
♦ CD74FCT377	IDT	IDT74FCT377	
	Motorola	MC74F377	
	National	74F377	
	Philips	74F377	
	TI	SN74F377	
CD74FCT533	IDT	IDT74FCT533	
	Mitsubishi	M74ALS533	
	Motorola	MC74F533	
	National	DM74ALS533	
		DM74AS533	
		74F533	
	Philips	74F533	
	Quality Semi	QS74FCT533	
	TI	SN74ALS533	
		SN74AS533	
		SN74BCT533	
		SN74F533	
CD74FCT534	IDT	IDT74FCT534	
	Mitsubishi	M74ALS534	
	Motorola	MC74F534	
	National	DM74ALS534	
		DM74AS534	
		74F534	
	Philips	74F534	
	Quality Semi	QS74FCT534	
	TI	SN74ALS534	
		SN74AS534	
		SN74BCT534	
		SN74F534	
CD74FCT540	IDT	IDT74FCT540	
	National	74F540	
	Philips	74F540	
	Quality Semi	QS74FCT540	
	TI	SN74ALS540	
			(Continued)
CD74FCT540	TI		(Cont'd)
		SN74BCT540	
		SN74F540	
CD74FCT541	IDT	IDT74FCT541	
	National	74F541	
	Philips	74F541	
	Quality Semi	QS74FCT541	
	TI	SN74ALS541	
		SN74BCT541	
		SN74F541	
CD74FCT543	IDT	IDT74FCT543	
	Mitsubishi	M74F543	
	Motorola	MC74F543	
	National	74F543	
	Philips	74F543	
	Quality Semi	QS74FCT543	
	TI	SN74BCT543	
		SN74F543	
CD74FCT544	National	74F544	
	Philips	74F544	
	Quality Semi	QS74FCT544	
	TI	SN74BCT544	
		SN74F544	
CD74FCT563	Mitsubishi	M74ALS563	
	National	DM74ALS563	
		74F563	
	Philips	74ALS563	
		74F563	
	TI	SN74ALS563	
		SN74BCT563	
		SN74F563	
CD74FCT564	Mitsubishi	M74ALS564	
	National	DM74ALS564	
		74F564	
	Philips	74ALS564	
		74F564	
	TI	SN74ALS564	
		SN74BCT564	
		SN74F564	
CD74FCT573	IDT	IDT74FCT573	
	Mitsubishi	M74ALS573	
		M74F573	
	National	DM74ALS573	
		DM74AS573	
		74F573	
	Philips	74ALS573	
		74F573	
	Quality Semi	QS74FCT573	
	TI	SN74ALS573	
		SN74AS573	
		SN74BCT573	
		SN74F573	
CD74FCT574	IDT	IDT74FCT574	
	Mitsubishi	M74ALS574	
		M74F574	
	National	DM74ALS574	
		DM74AS574	
		74F574	
	Philips	N74F574	
		74ALS574	
	Quality Semi	QS74FCT574	
	TI	SN74ALS574	
		SN74AS574	
		SN74FCT574	
		SN74F574	
CD74FCT623	Mitsubishi	M74ALS623	
	Motorola	MC74F623	
	National	74F623	
	Philips	74ALS623	
		74F623	
	TI	SN74ALS623	
		SN74AS623	
		SN74BCT623	
		SN74F623	
CD74FCT640	IDT	IDT74FCT640	
♦ CD74FCT640	IDT	IDT74FCT640	
	Mitsubishi	M74ALS640	
	National	DM74ALS640	
		DM74AS640	
♦ CD74FCT640	TI	SN74ALS640	
		SN74AS640	
		SN74BCT640	
♦ CD74FCT643	Mitsubishi	M74ALS643	
	TI	SN74ALS643	
		SN74AS643	
CD74FCT646	IDT	IDT74FCT646	
	Mitsubishi	M74ALS646	
		M74F646	
	National	DM74AS646	
		74F646	
	Philips	N74F646	
		74ALS646	
			(Continued)
CD74FCT646			(Cont
	Quality Semi	QS74FCT646	
	TI	SN74ALS646	
		SN74AS646	
		SN74BCT646	
		SN74F646	
CD74FCT647	Mitsubishi	M74ALS647	
	TI	SN74ALS647	
CD74FCT648	IDT	IDT74FCT648	
	Mitsubishi	M74ALS648	
		M74F648	
	National	74F648	
	Philips	74ALS648	
		74F648	
	Quality Semi	QS74FCT648	
	TI	SN74ALS648	
		SN74AS648	
		SN74BCT648	
CD74FCT649	Mitsubishi	M74ALS649	
	TI	SN74ALS649	
CD74FCT651	IDT	IDT74FCT651	
	Mitsubishi	M74ALS651	
	National	DM74ALS651	
		DM74AS651	
	Philips	74ALS651	
		74F651	
	Quality Semi	QS74FCT651	
	TI	SN74ALS651	
		SN74AS651	
		SN74BCT651	
CD74FCT652	IDT	IDT74FCT652	
	Mitsubishi	M74ALS652	
	National	DM74AS652	
	Philips	74ALS652	
		74F652	
	Quality Semi	QS74FCT652	
	TI	SN74ALS652	
		SN74AS652	
		SN74BCT652	
CD74FCT653	TI	SN74ALS653	
CD74FCT654	TI	SN74ALS654	
CD74FCT821	AMD	AM28821	
	IDT	IDT74FCT821	
	Mitsubishi	M74F821	
	National	74F821	
	Philips	74F821	
	Quality Semi	QS74FCT821	
	TI	SN74AS821	
		SN74BCT29821	
CD74FCT822	AMD	AM29822	
	IDT	IDT74FCT822	
	TI	SN74AS822	
		SN74BCT29822	
CD74FCT823	AMD	AM29823	
	IDT	IDT74FCT823	
	Mitsubishi	M74F823	
	National	74F823	
	Philips	74F823	
	Quality Semi	QS74FCT823	
	TI	SN74AS823	
		SN74BCT29823	
CD74FCT824	AMD	AM29824	
	IDT	IDT74FCT824	
	TI	SN74AS824	
		SN74BCT29824	
CD74FCT827	AMD	AM29827	
	IDT	IDT74FCT827	
	Motorola	MC74F827	
	National	74F827	
	Philips	74F827	
	Quality Semi	QS74FCT827	
	TI	SN74BCT29827	
CD74FCT828	AMD	AM29828	
	IDT	IDT74FCT828	
	Motorola	MC74F828	
	National	74F828	
	Philips	74F828	
	Quality Semi	QS74FCT828	
	TI	SN74BCT29828	
CD74FCT841	AMD	AM29841	
	IDT	IDT74FCT841	
	Mitsubishi	M74F841	
	National	74F841	
	Philips	74F841	
	Quality Semi	QS74FCT841	
	TI	SN74ALS841	
		SN74AS841	
		SN74BCT29841	
CD74FCT842	AMD	AM29842	
	IDT	IDT74FCT842	
	TI	SN74ALS842	
		SN74AS842	
		SN74BCT29842	
			(Continu

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
CD74FCT843	AMD	AM29843	
	IDT	IDT74FCT843	
	Mitsubishi	M74F843	
	National	74F843	
	Philips	74F843	
	Quality Semi	QS74FCT843	
	TI	SN74ALS843	
		SN74AS843	
		SN74BCT843	
CD74FCT844	AMD	AM29844	
	IDT	IDT74FCT844	
	TI	SN74ALS844	
		SN74AS844	
		SN74BCT29844	
CD74FCT861	AMD	AM29861	
	IDT	IDT74FCT861	
	Quality Semi	QS74FCT861	
	TI	SN74BCT29861	
CD74FCT862	AMD	AM29862	
	IDT	IDT74FCT862	
	Quality Semi	QS74FCT862	
	TI	SN74BCT29862	
CD74FCT863	AMD	AM29863	
	IDT	IDT74FCT863	
	Quality Semi	QS74FCT863	
	TI	SN74BCT29863	
CD74FCT864	AMD	AM29864	
	IDT	IDT74FCT864	
	Quality Semi	QS74FCT864	
	TI	SN74BCT29864	
CD74HCT00	GoldStar	GD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	Philips	74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
CD74HCT02	GoldStar	GD74HCT01	
		GD74HCT02	
	Philips	74HCT02	
	TI	SN74HCT02	
	Toshiba	**TC74HCT02A**	**(3836)**
CD74HCT03	GoldStar	GD74HCT03	
	National	MM74HCT03	
	Philips	74HCT03	
CD74HCT04	GoldStar	GD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	Philips	74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
CD74HCT08	GoldStar	GD74HCT08	
	Motorola	MC74HCT08A	
	National	MM74HCT08	
	Philips	74HCT08	
	TI	SN74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
CD74HCT10	GoldStar	GD74HCT09	
		GD74HCT10	
	Philips	74HCT10	
CD74HCT107	Philips	74HCT107	
CD74HCT109	National	MM74HCT109	
	Philips	74HCT109	
CD74HCT11	GoldStar	GD74HCT11	
	Philips	74HCT11	
CD74HCT112	National	MM74HCT112	
	Philips	74HCT112	
CD74HCT123	Philips	74HCT123	
CD74HCT125	GoldStar	GD74HCT125	
	Philips	74HCT125	
CD74HCT126	GoldStar	GD74HCT126	
	Philips	74HCT126	
CD74HCT132	Philips	74HCT132	
CD74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
	GoldStar	GD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
CD74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
			(Continued)
CD74HCT138			(Cont'd)
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
CD74HCT139	GEC Plessey	MV74HCT139	
		74HCT139	
	GoldStar	GD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	Philips	74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	**(3836)**
CD74HCT14	Motorola	MC74HCT14A	
	Philips	74HCT14	
CD74HCT147	GoldStar	GD74HCT147	
	National	MM74HCT147	
	Philips	74HCT147	
CD74HCT151	GoldStar	GD74HCT151	
	National	MM74HCT149	
		MM74HCT151	
	Philips	74HCT151	
CD74HCT153	GoldStar	GD74HCT153	
	National	MM74HCT153	
	Philips	74HCT153	
CD74HCT154	GoldStar	GD74HCT154	
	Philips	74HCT154	
CD74HCT157	GoldStar	GD74HCT157	
	Motorola	MC74HCT157A	
	National	MM74HCT157	
	Philips	74HCT157	
	SGS-Thomson	M74HCT157	
	Toshiba	**TC74HCT157A**	**(3836)**
CD74HCT158	GoldStar	GD74HCT158	
	Motorola	MC74HCT158A	
	National	MM74HCT158	
	Philips	74HCT158	
	SGS-Thomson	M74HCT158	
	Toshiba	**TC74HCT158A**	**(3836)**
CD74HCT160	GoldStar	GD74HCT160	
	Philips	74HCT160	
CD74HCT161	GoldStar	GD74HCT161	
	Motorola	MC74HCT161A	
	Philips	74HCT161	
CD74HCT162	GoldStar	GD74HCT162	
	Philips	74HCT162	
CD74HCT163	GoldStar	GD74HCT163	
	Motorola	MC74HCT163A	
	Philips	74HCT163	
CD74HCT164	National	MM74HCT164	
	Philips	74HCT164	
	SGS-Thomson	M74HCT164	
	Toshiba	**TC74HCT164A**	**(3836)**
CD74HCT165	GoldStar	GD74HCT165	
	Philips	74HCT165	
CD74HCT166	National	MM74HCT166	
	Philips	74HCT166	
CD74HCT173	GoldStar	GD74HCT173	
	Philips	74HCT173	
CD74HCT174	GoldStar	GD74HCT174	
	Motorola	MC74HCT174A	
	Philips	74HCT174	
	Toshiba	TC74HCT174A	
CD74HCT175	GoldStar	GD74HCT175	
	Philips	74HCT175	
CD74HCT181	Philips	74HCT181	
CD74HCT182	Philips	74HCT182	
CD74HCT190	GoldStar	GD74HCT190	
	National	74HCT190	
	Philips	74HCT190	
CD74HCT191	GoldStar	GD74HCT191	
	National	MM74HCT191	
	Philips	74HCT191	
CD74HCT192	GoldStar	GD74HCT192	
	National	MM74HCT192	
	Philips	74HCT192	
CD74HCT193	National	MM74HCT193	
	Philips	74HCT193	
CD74HCT194	Philips	74HCT194	
CD74HCT195	Philips	74HCT195	
CD74HCT20	GoldStar	GD74HCT20	
	Philips	74HCT20	
CD74HCT21	GoldStar	GD74HCT21	
	Philips	74HCT21	
CD74HCT221	GoldStar	GD74HCT221	
	Philips	74HCT221	
CD74HCT22106	GEC Plessey	MV74HCT237	
		74HCT237	
	Harris	CD74HCT237	
	Philips	74HCT237	
	TI	SN74HCT237	
CD74HCT237	GEC Plessey	MV74HCT237	
		74HCT237	
	Harris	CD74HCT22106	
	Philips	74HCT237	
	TI	SN74HCT237	
CD74HCT238	GEC Plessey	MV74HCT238	
		74HCT238	
	Philips	74HCT238	
	TI	SN74HCT238	
CD74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
CD74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
CD74HCT242	Philips	74HCT242	
	TI	SN74HCT242	
CD74HCT243	Philips	74HCT243	
	TI	SN74HCT243	
CD74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
CD74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
CD74HCT251	National	MM74HCT251	
	Philips	74HCT251	
CD74HCT253	National	MM74HCT253	
CD74HCT257	GoldStar	GD74HCT257	
	National	MM74HCT257	
	Philips	74HCT257	
	SGS-Thomson	M74HCT257	
	Toshiba	**TC74HCT257A**	**(3836)**
CD74HCT258	National	MM74HCT258	
	Philips	74HCT258	
	SGS-Thomson	M74HCT258	
	Toshiba	**TC74HCT258A**	**(3836)**
CD74HCT259	Philips	74HCT259	
CD74HCT27	GoldStar	GD74HCT27	
	Philips	74HCT27	
CD74HCT273	GoldStar	GD74HCT273	
	Mitsubishi	M74HCT273-1	
	Motorola	MC74HCT273A	
	National	MM74HCT273	
			(Continued)
CD74HCT273			(Cont'd)
	Philips	74HCT273	
	Toshiba	**TC74HCT273A**	**(3836)**
CD74HCT280	GoldStar	GD74HCT280	
	Philips	74HCT280	
CD74HCT283	Philips	74HCT283	
CD74HCT297	Philips	74HCT297	
CD74HCT299	GoldStar	GD74HCT299	
	Philips	74HCT299	
CD74HCT30	GoldStar	GD74HCT30	
	Philips	74HCT30	
CD74HCT32	GoldStar	GD74HCT32	
	Motorola	MC74HCT32A	
	National	MM74HCT32	
	Philips	74HCT32	
	TI	SN74HCT32	
	Toshiba	**TC74HCT32A**	**(3836)**
CD74HCT354	Philips	74HCT354	
	Toshiba	**TC74HCT352A**	**(3836)**
CD74HCT356	Philips	74HCT356	
CD74HCT365	GoldStar	GD74HCT365	
	Philips	74HCT365	
CD74HCT366	GoldStar	GD74HCT366	
	Philips	74HCT366	
CD74HCT367	GoldStar	GD74HCT367	
	Philips	74HCT367	
CD74HCT368	GoldStar	GD74HCT368	
	Philips	74HCT368	
CD74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
CD74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
CD74HCT377	Philips	74HCT377	
♦ CD74HCT384	Harris	CD74HCT390	
	Philips	74HCT390	
CD74HCT390	Philips	74HCT390	
CD74HCT393	GoldStar	GD74HCT393	
	Philips	74HCT393	
CD74HCT4002	Philips	74HCT4002	
CD74HCT40102	Philips	74HCT40102	
CD74HCT40103	Philips	74HCT40103	
CD74HCT40104	Philips	74HCT40104	
CD74HCT40105	Philips	74HCT40105	
CD74HCT4015	Philips	74HCT4015	
♦ CD74HCT4016	Harris	CD74HCT4017	
	Philips	74HCT4017	
CD74HCT4017	Philips	74HCT4017	
CD74HCT4020	Philips	74HCT4020	
CD74HCT4024	Philips	74HCT4024	
CD74HCT4040	Philips	74HCT4040	
CD74HCT4046A	Philips	74HCT4046A	
♦ CD74HCT4049	Harris	CD74HCT4051	
	Philips	74HCT4051	
CD74HCT4051	Philips	74HCT4051	
CD74HCT4052	Philips	74HCT4052	
CD74HCT4053	Philips	74HCT4053	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
CD74HCT4059	Philips	74HCT4059	
CD74HCT4060	Philips	74HCT4060	
CD74HCT4066	Philips	74HCT4066	
CD74HCT4067	Philips	74HCT4067	
CD74HCT4075	Philips	74HCT4075	
CD74HCT4094	Philips	74HCT4094	
CD74HCT42	GoldStar	GD74HCT42	
	Philips	74HCT42	
CD74HCT423	Philips	74HCT423	
CD74HCT4316	Philips	74HCT4316	
CD74HCT4351	Philips	74HCT4351	
CD74HCT4352	Philips	74HCT4352	
CD74HCT4353	Philips	74HCT4353	
CD74HCT4510	Philips	74HCT4510	
CD74HCT4511	Philips	74HCT4511	
CD74HCT4514	Philips	74HCT4514	
CD74HCT4515	Philips	74HCT4515	
CD74HCT4516	Philips	74HCT4516	
CD74HCT4518	Philips	74HCT4518	
CD74HCT4520	Philips	74HCT4520	
CD74HCT4538	Philips	74HCT4538	
CD74HCT4543	Philips	74HCT4543	
CD74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
CD74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
CD74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(3836)**
CD74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(3836)**
CD74HCT563	GEC Plessey	MV74HCT563	
		74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	**(3836)**
CD74HCT564	GEC Plessey	MV74HCT564	
		74HCT564	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
CD74HCT564			(Cont'd)
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	**(3836)**
CD74HCT573	GEC Plessey	MV74HCT573	
		74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
CD74HCT574	GEC Plessey	MV74HCT574	
		74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**
CD74HCT583	GoldStar	GD74HCT58	
	Philips	74HCT583	
CD74HCT597	Philips	74HCT597	
CD74HCT640	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
	Universal	US74HCT640	
CD74HCT643	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	Philips	74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
CD74HCT646	GoldStar	GD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
CD74HCT648	GoldStar	GD74HCT648	
	Philips	74HCT648	
	SGS-Thomson	M74HCT648	
	TI	SN74HCT648	
	Toshiba	**TC74HCT648A**	**(3836)**
CD74HCT651	SGS-Thomson	M74HCT651	
	TI	SN74HCT651	
	Toshiba	**TC74HCT651A**	**(3836)**
CD74HCT652	SGS-Thomson	M74HCT652	
	TI	SN74HCT652	
	Toshiba	**TC74HCT652A**	**(3836)**
CD74HCT670	Philips	74HCT670	
CD74HCT688	National	MM74HCT688	
	Philips	74HCT688	
	SGS-Thomson	M74HCT688	
	Toshiba	**TC74HCT688A**	**(3836)**
CD74HCT7030	Philips	74HCT7030	
CD74HCT7038	Harris	CD74HCT7046A	
	Philips	74HCT7046A	
♦ CD74HCT7046	Harris	CD74HCT7038	
		CD74HCT7046A	
♦ CD74HCT7046	Philips	74HCT7046A	
CD74HCT7046A	Harris	CD74HCT7038	
	Philips	74HCT7046A	
CD74HCT73	Philips	74HCT73	
CD74HCT74	GoldStar	GD74HCT74	
	Motorola	MC74HCT74A	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
CD74HCT74			(Cont'd)
	National	MM74HCT74	
	Philips	74HCT74	
	SGS-Thomson	M74HCT74	
	TI	SN74HCT74	
	Toshiba	**TC74HCT74A**	**(3836)**
CD74HCT75	Philips	74HCT75	
CD74HCT85	Philips	74HCT85	
CD74HCT86	GoldStar	GD74HCT86	
	Philips	74HCT86	
	SGS-Thomson	M74HCT86	
	Toshiba	**TC74HCT86A**	**(3836)**
CD74HCT93	Philips	74HCT93	
CD74HC00	GoldStar	GD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
CD74HC02	GoldStar	GD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
CD74HC03	GoldStar	GD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
CD74HC04	GoldStar	GD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
CD74HC08	GoldStar	GD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
CD74HC10	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
CD74HC107	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
CD74HC109	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
CD74HC11	GoldStar	GD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
CD74HC112	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Mast Pa
CD74HC112			(Cont'd
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836**
CD74HC123	Mitsubishi	M74HC123A	
	National	MM74HC123	
		MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	
	Toshiba	TC74HC123	
		TC74HC123A	
CD74HC125	GoldStar	GD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(383**
CD74HC126	GoldStar	GD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(383**
CD74HC132	GoldStar	GD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(383**
		TC74HC132A	**(383**
CD74HC137	GoldStar	GD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(383**
CD74HC138	GoldStar	GD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(383**
CD74HC139	GoldStar	GD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(383**
CD74HC14	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(383**
CD74HC147	GoldStar	GD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3**
CD74HC151	GoldStar	GD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ufacturer ice	Replacement Source	Device	IC Master Page
74HC151			(Cont'd)
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
74HC153	GoldStar	GD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
74HC154	GoldStar	GD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
74HC157	GoldStar	GD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
74HC158	GoldStar	GD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
74HC160	GoldStar	GD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
74HC161	GoldStar	GD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
D74HC162	GoldStar	GD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
D74HC163	GoldStar	GD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
D74HC164	GoldStar	GD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
			(Continued)
CD74HC164			(Cont'd)
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
CD74HC165	GoldStar	GD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
CD74HC166	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
CD74HC173	GoldStar	GD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
CD74HC174	GoldStar	GD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
CD74HC175	GoldStar	GD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
CD74HC181	National	MM74HC181	
	Philips	74HC181	
	SGS-Thomson	M74HC181	
	Toshiba	**TC74HC181A**	**(3836)**
CD74HC182	National	MM74HC182	
	Philips	74HC182	
	SGS-Thomson	M74HC182	
	Toshiba	**TC74HC182A**	**(3836)**
CD74HC190	GoldStar	GD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
CD74HC191	GoldStar	GD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
CD74HC192	GoldStar	GD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
			(Continued)
CD74HC193	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
CD74HC194	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
CD74HC195	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
CD74HC20	GoldStar	GD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
CD74HC21	GoldStar	GD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	**(3836)**
	Universal	US74HC21	
CD74HC221	GoldStar	GD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221 M74HC221A	
	Toshiba	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
CD74HC22106	Harris	CD74HC237	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
CD74HC237	Harris	CD74HC22106	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
CD74HC238	National	MM74HC238	
	Philips	74HC238	
	SGS-Thomson	M74HC238	
	TI	SN74HC238	
	Toshiba	**TC74HC238A**	**(3836)**
CD74HC240	GoldStar	GD74HC240	
	Mitsubishi	M74HC240 M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
			(Continued)
CD74HC241	GoldStar	GD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241 M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
CD74HC242	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
CD74HC243	Mitsubishi	M74HC243	
	National	MM74HC243	
	Philips	74HC243	
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	**(3836)**
CD74HC244	GoldStar	GD74HC244	
	Mitsubishi	M74HC244 M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
CD74HC245	GoldStar	GD74HC245	
	Mitsubishi	M74HC245 M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245 MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
CD74HC251	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
CD74HC253	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
CD74HC257	GoldStar	GD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
CD74HC258	National	MM74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
CD74HC259	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
CD74HC27	GoldStar	GD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
CD74HC273	GoldStar	GD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
CD74HC280	GoldStar	GD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
CD74HC283	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	**(3836)**
CD74HC297	Philips	74HC297	
CD74HC299	GoldStar	GD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
CD74HC30	GoldStar	GD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
CD74HC32	GoldStar	GD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
CD74HC354	Motorola	MC74HC354	
	National	MM74HC354	
	Philips	74HC354	
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	**(3836)**
CD74HC356	National	MM74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	**(3836)**
CD74HC365	GoldStar	GD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
CD74HC366	GoldStar	GD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
			(Continued)
CD74HC366			(Cont'd)
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
CD74HC367	GoldStar	GD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
CD74HC368	GoldStar	GD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
CD74HC373	GoldStar	GD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
CD74HC374	GoldStar	GD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
CD74HC377	Philips	74HC377	
	SGS-Thomson	M74HC377	
	TI	SN74HC377	
	Toshiba	**TC74HC377A**	**(3836)**
♦ CD74HC384	SGS-Thomson	M74HC386	
	TI	SN74HC386	
	Toshiba	**TC74HC386A**	**(3836)**
CD74HC390	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
CD74HC393	GoldStar	GD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
CD74HC4002	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	**(3836)**
CD74HC40102	Philips	74HC40102	
	SGS-Thomson	M74HC40102	
	Toshiba	**TC74HC4007A**	**(3836)**
		TC74HC40102A	**(3836)**
			(Continued)
CD74HC40103	Philips	74HC40103	
	SGS-Thomson	M74HC40103	
	Toshiba	**TC74HC40103A**	**(3836)**
CD74HC40104	Philips	74HC40104	
CD74HC40105	Philips	74HC40105	
	Toshiba	**TC74HC40105A**	**(3836)**
CD74HC4015	Philips	74HC4015	
CD74HC4016	Motorola	MC74HC4016	
	National	MM74HC4016	
	Philips	74HC4016	
	Toshiba	**TC74HC4016A**	**(3836)**
CD74HC4017	Motorola	MC74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	**(3836)**
CD74HC4020	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
CD74HC4024	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836)**
CD74HC4040	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836)**
♦ CD74HC4046	Harris	CD74HC4046A	
	Motorola	MC74HC4046A	
	National	MM74HC4046	
	Philips	74HC4046A	
CD74HC4046A	Motorola	MC74HC4046A	
	National	MM74HC4046	
	Philips	74HC4046A	
CD74HC4049	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
CD74HC4050	Mitsubishi	M74HC4050B	
	Motorola	MC74HC4050	
	National	MM74HC4050	
	Philips	74HC4050	
	SGS-Thomson	M74HC4050	
	Toshiba	**TC74HC4050A**	**(3836)**
CD74HC4051	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
CD74HC4052	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
CD74HC4053	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
			(Continued)
CD74HC4053			(Cont'
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(383**
CD74HC4059	Philips	74HC4059	
CD74HC4060	Motorola	MC74HC4060	
	National	MM74HC4060	
	Philips	74HC4060	
	SGS-Thomson	M74HC4060	
	TI	SN74HC4060	
	Toshiba	**TC74HC4060A**	**(3**
CD74HC4066	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
	Toshiba	**TC74HC4066A**	**(3**
CD74HC4067	Philips	74HC4067	
CD74HC4075	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	**(38**
CD74HC4094	Philips	74HC4094	
	SGS-Thomson	M74HC4094	
	Toshiba	**TC74HC4094A**	**(38**
CD74HC42	GoldStar	GD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(383**
CD74HC423	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423	
		M74HC423A	
	Toshiba	TC74HC423	
		TC74HC423A	**(38**
CD74HC4316	Motorola	MC74HC4316	
	National	MM74HC4316	
	Philips	74HC4316	
	SGS-Thomson	M74HC4316	
	Toshiba	**TC74HC4316A**	**(38**
CD74HC4351	Motorola	MC74HC4351	
	Philips	74HC4351	
	SGS-Thomson	M74HC4351	
	Toshiba	**TC74HC4351A**	**(38**
CD74HC4352	Motorola	MC74HC4352	
	Philips	74HC4352	
	SGS-Thomson	M74HC4352	
	Toshiba	**TC74HC4352A**	**(38**
CD74HC4353	Motorola	MC74HC4353	
	Philips	74HC4353	
	SGS-Thomson	M74HC4353	
	Toshiba	**TC74HC4353A**	**(38**
CD74HC4510	Philips	74HC4510	
CD74HC4511	Motorola	MC74HC4511	
	National	MM74HC4511	
	Philips	74HC4511	
	SGS-Thomson	M74HC4511	
	Toshiba	**TC74HC4511A**	**(38**
CD74HC4514	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
74HC4514			(Cont'd)
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
74HC4515	Philips	74HC4515	
	TI	SN74HC4515	
	Toshiba	**TC74HC4515A**	**(3836)**
74HC4516	Philips	74HC4516	
74HC4518	National	MM74HC4518	
	Philips	74HC4518	
	SGS-Thomson	M74HC4518	
	Toshiba	**TC74HC4518A**	**(3836)**
74HC4520	National	MM74HC4520	
	Philips	74HC4520	
	Toshiba	**TC74HC4520A**	**(3836)**
74HC4538	Motorola	MC74HC4538A	
	National	MM74HC4538	
	Philips	74HC4538	
	SGS-Thomson	M74HC4538	
	Toshiba	**TC74HC4538A**	**(3836)**
74HC4543	National	MM74HC4543	
	Philips	74HC4543	
	SGS-Thomson	M74HC4543	
	Toshiba	TC74HC4543A	
74HC533	GoldStar	GD74HC533	
	Mitsubishi	M74HC533 M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521 MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
74HC534	GoldStar	GD74HC534	
	Mitsubishi	M74HC534 M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
74HC540	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
	Toshiba	TC74HC5353A **TC74HC540A**	**(3836)**
74HC541	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
74HC563	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555 74HC563	
	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
74HC564	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
74HC573	Motorola	MC74HC573A	
	National	MM74HC573	
	Philips	74HC573	
			(Continued)
CD74HC573			(Cont'd)
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
CD74HC574	Motorola	MC74HC574A	
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
CD74HC583	Philips	74HC583	
CD74HC597	Motorola	MC74HC597	
	National	MM74HC597	
	Philips	74HC597	
	SGS-Thomson	M74HC597	
	Toshiba	TC74HC597A	
CD74HC640	Mitsubishi	M74HC640 M74HC640-1	
	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
CD74HC643	Mitsubishi	M74HC643 M74HC643-1	
	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
CD74HC646	GoldStar	GD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
CD74HC648	GoldStar	GD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
CD74HC651	SGS-Thomson	M74HC651	
	TI	SN74HC651	
	Toshiba	**TC74HC651A**	**(3836)**
CD74HC652	SGS-Thomson	M74HC652	
	TI	SN74HC652	
	Toshiba	**TC74HC652A**	**(3836)**
CD74HC670	Motorola	MC74HC670	
	Philips	74HC670	
	SGS-Thomson	M74HC670	
	Toshiba	**TC74HC670A**	**(3836)**
CD74HC688	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
CD74HC7030	Philips	74HC7030	
CD74HC7038	Harris	CD74HC7046A	
	Philips	74HC7046A	
CD74HC7046A			
	Harris	CD74HC7038	
	Philips	74HC7046A	
CD74HC7266	Motorola	MC74HC7266	
	National	MM74HC7266	
	Philips	74HC7266	
	SGS-Thomson	M74HC7266	
	TI	SN74HC7266	
	Toshiba	**TC74HC7266A**	**(3836)**
			(Continued)
CD74HC73	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	Philips	74HC73	
	SGS-Thomson	M74HC73	
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	**(3836)**
CD74HC74	GoldStar	GD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
CD74HC75	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
CD74HC85	Mitsubishi	M74HC842-1 M74HC85	
	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
CD74HC86	GoldStar	GD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
CD74HC93	Philips	74HC93	
CMD27C256	SEEQ	27C256	
CMP01	Motorola	MC1556	
CP82C37A	Newbridge	CA82C37A	
CP82C50	Exar	XR16C450	
CP82C50A	Newbridge	CA82C52	
CP82C54	Newbridge	CA82C54	
CP82C55A	Newbridge	CA82C55A	
CP82C59A	Newbridge	CA82C59A	
CP82C84A	Newbridge	CA82C84A	
CP82C88	Newbridge	CA82C88	
CS82C37A	Newbridge	CA82C37A	
CS82C52	Newbridge	CA82C52	
CS82C54	Newbridge	CA82C54	
CS82C55A	Newbridge	CA82C55A	
CS82C59A	Newbridge	CA82C59A	
CS82C84A	Newbridge	CA82C84A	
CS82C88	Newbridge	CA82C88	
DAC1265	Harris	HI565A	
DGM181	Maxim	DGM181	
DGM182	Maxim	DGM182	
	TI	TL182 TL604	
DGM185	TI	TL185 TL604	
DGM188	TI	TL188 TL610	
DGM191	TI	TL191 TL610	
DG180	Siliconix	DG180	
DG181	Siliconix	DG181	
♦ DG181	Siliconix	DG181	
DG182	Siliconix	DG182	
♦ DG182	Siliconix	DG182	
♦ DG183	Siliconix	DG183	
DG184	Siliconix	DG184	
♦ DG184	Siliconix	DG184	
DG185	Siliconix	DG185	
♦ DG185	Siliconix	DG185	
♦ DG186	Siliconix	DG186	
DG187	Siliconix	DG187	
♦ DG187	Siliconix	DG187	
DG188	Siliconix	DG188	
♦ DG188	Siliconix	DG188	
♦ DG189	Siliconix	DG189	
DG190	Siliconix	DG190	
♦ DG190	Siliconix	DG190	
DG191	Siliconix	DG191	
♦ DG191	Siliconix	DG191	
			(Continued)
DG200	Harris	HI0200	
	Maxim	DG200	
	Siliconix	DG200	
	Unitrode	PIC7513	
DG201	AD	ADG201	
	Harris	HI0201	
	LinearTech	LTC201	
	Maxim	DG201	
	National	LF11201 LF13201	
	NJR	NJU201A	
	Siliconix	DG201	
DG202	AD	ADG202 **AD202**	**(3521)**
	Maxim	DG202	
	Siliconix	DG202	
DG211	AD	ADG211	
	Maxim	DG211	
	National	LF13201	
	NJR	NJU211	
	Siliconix	DG211	
DG212	AD	ADG212	
	Maxim	DG212	
	National	LF13202	
	Siliconix	DG212	
DG300	Maxim	DG300	
	Siliconix	DG300	
DG301	Maxim	DG301	
	Siliconix	DG301	
DG302	Maxim	DG302	
	Siliconix	DG302	
DG303	Harris	HI0303	
	Maxim	DG303	
	Siliconix	DG303	
DG304	Harris	HI0304	
DG305	Harris	HI0305	
DG306	Harris	HI0306	
DG307	Harris	HI0307	
DG308	Siliconix	DG308	
DG309	Siliconix	DG309	
DG381	Harris	HI0381	
DG384	Harris	HI0384	
DG387	Harris	HI0387	
DG390	Harris	HI0390	
DG401	Maxim	DG401	
	Siliconix	DG401	
DG403	Maxim	DG403	
	Siliconix	DG403	
DG405	Maxim	DG405	
	Siliconix	DG405	
DG406	Maxim	DG406	
	Siliconix	DG406	
DG407	Maxim	DG407	
	Siliconix	DG407	
DG408	Maxim	DG408	
	Siliconix	DG408	
DG409	Maxim	DG409	
	Siliconix	DG409	
DG411	AD	DG411	
	Maxim	DG411	
	Siliconix	DG411	
DG412	AD	DG412	
	Maxim	DG412	
	Siliconix	DG412	
DG413	AD	DG413	
	Maxim	DG413	
	Siliconix	DG413	
DG441	AD	DG441	
	Maxim	DG441	
	Siliconix	DG441	
DG442	AD	DG442	
	Maxim	DG442	
	Siliconix	DG442	
DG444	AD	DG444	
	Maxim	DG444	
	Siliconix	DG444	
DG445	AD	DG445	
	Maxim	DG445	
	Siliconix	DG445	
DG458	Siliconix	DG458	
DG459	Siliconix	DG459	
DG506	AD	ADG506 AD7506	
	Harris	HI0506	
	Siliconix	DG506	
DG506A	AD	ADG405 ADG506 AD7506	
	Maxim	DG506	
	Siliconix	DG506	
DG507	AD	ADG507 AD7507	
			(Continued)

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
DG507			(Cont'd)
	Harris	HI0507	
	Siliconix	DG507	
DG507A	AD	ADG507	
		AD7507	
	Maxim	DG507	
	Siliconix	DG507	
DG508	AD	ADG508	
	Harris	HI0508	
	Siliconix	DG508	
DG508A	AD	ADG508	
	Maxim	DG508	
	National	LF13508	
	Siliconix	DG508	
DG509	AD	ADG509	
	Harris	HI0509	
	Siliconix	DG509	
DG509A	AD	ADG509	
	Maxim	DG509	
	National	LF13509	
	Siliconix	DG509	
DG526	AD	ADG526	
	Siliconix	DG526	
DG527	AD	ADG527	
	Siliconix	DG527	
DG528	AD	ADG528	
	Maxim	DG528	
	Siliconix	DG528	
DG529	AD	ADG529	
	Maxim	DG529	
	Siliconix	DG529	
HAOP07	Burr-Brown	OPA177	
	LinearTech	LT1001	
		OP07	
	National	LM607	
HAOP27	Burr-Brown	OPA27	
HAOP37	Burr-Brown	OPA27	
		OPA37	
HA2102	AD	OP270	
HA2105	AD	OP270	
HA2400	National	LM604	
HA2404	National	LM604	
HA2405	Elantec	EHA2405	
	National	LM604	
HA2406	Elantec	EHA2405	
	National	LM604	
HA2420	AD	SMP10	
		SMP11	
	Datel	SHM	
	LinearTech	LF198	
	Linfinity Micro	SHC85	
	National	LF198	
	Philips	LF198	
	TeledyneP	TP4856	
	TI	LF198	
HA2425	AD	AD583	
		SMP10	
		SMP11	
	Burr-Brown	SHC85	
	Datel	SHM	
	TeledyneP	TP4856	
HA2500	AD	OP42	
	Elantec	EHA2500	
	LinearTech	LT1220	
	National	LM6161	
	Sipex	SP2500	
HA2502	AD	OP42	
	Datel	AM450	
	Elantec	EHA2502	
	LinearTech	LT1220	
	National	LM6161	
	Sipex	SP2502	
HA2505	AD	OP42	
	Datel	AM450	
	Elantec	EHA2505	
	LinearTech	LT1220	
	National	LM6361	
	Sipex	SP2505	
HA2510	AD	AD518	
		OP42	
	Elantec	EHA2510	
	LinearTech	LM118	
		LT118	
	National	LM6161	
	Sipex	SP2510	
HA2512	AD	OP42	
	Elantec	EHA2512	
	LinearTech	LM118	
		LT118	
	National	LM6161	
	Sipex	SP2512	
			(Continued)
HA2515	AD	AD518	
		OP42	
	Elantec	EHA2515	
	LinearTech	LM318	
		LT318	
	National	LM6361	
	Sipex	EHA2515	
		SP2515	
	TI	LM318	
HA2520	AD	AD509	
		OP44	
	Burr-Brown	3507	
	Elantec	EHA2520	
	LinearTech	LT1220	
	National	LH0003	
		LM6164	
	Sipex	SP2520	
	TeledyneP	TP1322	
HA2522	AD	OP44	
	Datel	AM452	
	Elantec	EHA2522	
	National	LH0003	
		LM6164	
	Sipex	SP2522	
HA2525	AD	OP44	
	Burr-Brown	3507	
	Elantec	EHA2525	
	LinearTech	LT1220	
	National	LH0003	
	Sipex	SP2525	
	Unitrode	UC2525	
♦ HA2525	AD	AD509	
	Burr-Brown	3507	
	Datel	AM452	
	Elantec	EHA2525	
	Sipex	SP2525	
HA2525-5	Burr-Brown	3507J	
HA2529	Sipex	SP2520	
		SP2522	
		SP2525	
HA2530	National	LH0024	
HA2535	National	LH0024	
HA2539	Elantec	EHA2539	
	Philips	NE5539	
		SE5539	
	TeledyneP	TP1342	
HA2540	Elantec	EHA2540	
	National	LH0032	
		LM6165	
		LM6365	
	TeledyneP	TP1341	
HA2541	**AD**	**AD841**	**(3530)**
	LinearTech	LT1220	
	National	LM6161	
		LM6361	
	Sipex	SP2541	
HA2542	**AD**	**AD842**	**(3512, 3530)**
		HOS050	
	Calogic	LH0032	
	Elantec	ELH0032	
	National	LH0032	
		LM6164	
	Sipex	SP2542	
HA2544	**AD**	**AD847**	**(3530)**
	LinearTech	LT1224	
	National	LH4161	
		LM6361	
HA2546	**Burr-Brown**	**MPY600**	**(3466)**
HA2547	**Burr-Brown**	**MPY600**	**(3466)**
HA2548	AD	OP65	
HA2600	National	LM6161	
	Sipex	SP2600	
	TeledyneP	TP1326	
HA2602	Datel	AM460	
	National	LM6161	
	Sipex	SP2602	
HA2605	AnalogSys	MA332	
		MA333	
		MA362	
	Datel	AM460	
	National	LM6361	
	Sipex	SP2605	
HA2610	Sipex	SP2610	
HA2612	Sipex	SP2612	
HA2615	Sipex	SP2615	
HA2620	AD	AD507	
		OP64	
	Burr-Brown	3507	
	Datel	AM462	
	National	LM6164	
	Sipex	SP2620	
	TeledyneP	TP1339	
			(Continued)
HA2622	AD	OP64	
	National	LM6164	
	Sipex	SP2622	
HA2625	AD	AD507	
		OP64	
	Burr-Brown	3508	
	Datel	AM462	
	Sipex	SP2625	
HA2640	Burr-Brown	OPA445	
	Linfinity Micro	SG1536	
	National	LH0004	
		LM143	
HA2645	Burr-Brown	OPA445	
	National	LM343	
	TeledyneP	TP1332	
HA2650	AD	OP227	
		OP271	
HA2655	AD	OP227	
		OP271	
HA2720	AD	OP22	
HA2725	AD	OP22	
HA2839	Elantec	EHA2539	
HA2840	**AD**	**AD840**	**(3512, 3529)**
	Elantec	EHA2539	
	LinearTech	LT1222	
		LT1226	
HA2841	**AD**	**AD841**	**(3530)**
	Elantec	EL2044	
	LinearTech	LT1220	
		LT1221	
		LT1224	
		LT1225	
HA2842	**AD**	**AD842**	**(3512, 3530)**
	LinearTech	LT1225	
HA4156	AnalogSys	MA374	
HA4600	AD	OP470	
	AnalogSys	MA374	
HA4602	AD	OP470	
HA4605	AD	OP470	
	AnalogSys	MA374	
HA4741	AD	OP11	
	AnalogSys	MA374	
	Exar	XR4741	
	NEC	µPD4741	
	Raytheon	RC4741	
HA4900	AD	CMP04	
HA4902	AD	CMP04	
HA4905	AD	CMP04	
HA5002	Exar	XR117	
	National	LH0002	
HA5004	**AD**	**AD846**	**(3526, 3512, 3529)**
	Elantec	EL2020	
	LinearTech	LT1223	
	National	LH4004	
HA5020	AD	AD811	
		AD844	**(3526, 3512, 3529)**
		AD846	**(3526, 3512, 3529)**
		OP160	
	Comlinear	CLC430	
	Elantec	EL2030	
	LinearTech	LT1223	
		LT1227	
HA5023	Elantec	EL2232	
		EL2260	
	LinearTech	LT1229	
HA5025	Comlinear	CLC414	
		CLC415	
	Elantec	EL2460	
	LinearTech	LT1230	
HA5033	AD	HOS100	
	Burr-Brown	**OPA633**	**(3459)**
	Elantec	EL2004	
		EL2005	
	Maxim	MAX460	
	National	LH0033	
HA5062	AnalogSys	MA336	
		MA372	
HA5064	AnalogSys	MA374	
HA5082	AnalogSys	MA336	
		MA372	
HA5084	AnalogSys	MA374	
HA5101	Exar	XR5534	
	Philips	NE5534	
		SE5534	
	Raytheon	RC5534	
		RM5534	
			(Continued)
HA5102	AD	OP270	
		OP271	
	AnalogSys	MA336	
		MA372	
	Burr-Brown	OPA2111	
	Exar	XR4739	
		XR5532	
	National	LS204	
	Philips	NE5532	
		SE5532	
	Raytheon	RC5532	
		RM5532	
	SGS-Thomson	LS204	
	TI	NE5532	
	Toshiba	TA7555	
		TA75557	
HA5104	AD	OP11	
		OP470	
	AnalogSys	MA374	
	Lin Int Sys	LS404	
	LinearTech	OP470	
	SGS-Thomson	LS404	
HA5112	**AD**	**SSM2139**	**(3**
	AnalogSys	MA372	
	Toshiba	TA5559	
		TA75559	
HA5114	Burr-Brown	OPA404	
HA5127	AD	ADOP27	
		OP27	
	Burr-Brown	OPA27	
	Calogic	OP27	
	LinearTech	OP27	
	Motorola	OP27	
	Raytheon	OP27	
	TI	OP27	
		TLE2027	
HA5130	AD	OP177	
		OP77	
	Burr-Brown	OPA27	
	LinearTech	LT1001	
		OP07	
	TI	OP07	
HA5134	AD	OP11	
		OP400	
	Comlinear	OP400	
	Lansdale	OP400	
	LinearTech	LT1014	
	Motorola	OP11	
HA5135	AD	OP177	
		OP77	
	Burr-Brown	OPA27	
	LinearTech	LT1001	
		OP07	
	Philips	SE5534	
	TI	OP07	
HA5137	AD	ADOP37	
		OP37	
	Burr-Brown	OPA37	
	Calogic	OP37	
	Lin Int Sys	OP37	
	LinearTech	LT1037	
	Maxim	OP37	
	Motorola	OP37	
	Raytheon	OP37	
	TI	OP37	
		TLE2037	
HA5141	AD	OP20	
		OP90	
HA5142	AD	OP220	
		OP290	
	National	LF442	
HA5144	AD	OP420	
	Comlinear	OP420	
	National	LF444	
HA5147	AD	OP47	
	Burr-Brown	OPA37	
	Raytheon	OP47	
HA5151	AD	OP21	
		OP221	
		OP90	
HA5152	AD	OP221	
HA5154	AD	OP420	
		OP421	
HA5160	AD	OP44	
	Burr-Brown	3551	
	LinearTech	LT1022	
	TeledyneP	TP1344	
HA5162	AD	OP44	
	Burr-Brown	3551	
	TeledyneP	TP1345	
			(Contin

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
HA5170	AD	AD542	
		OP43	
	AnalogSys	MA333	
		MA362	
	Burr-Brown	OPA111	
		OPA2107	**(3457, 3459)**
HA5177	AD	OP177	
		OP77	
	Burr-Brown	OP77	
	Calogic	OP77	
	LinearTech	LT1001	
	Maxim	LT1001	
	Raytheon	LT1001	
		OP77	
HA5180	AD	OP43	
	Burr-Brown	OPA111	
		OPA2107	**(3457, 3459)**
HA5180	TeledyneP	TP1346	
HA5190	AD	OP64	
	Elantec	EHA5190	
	National	LM6164	
HA5195	AD	OP64	
	Elantec	EHA5195	
		EL2195	
	National	LM6364	
	TeledyneP	TP1321	
HA5202	Philips	NE5532	
HA5221	AD	OP62	
		OP63	
		OP64	
HA5222	LinearTech	LT1126	
	National	LM6118	
		LM6218	
HA5234	AD	OP400	
	Comlinear	OP400	
	Lansdale	OP400	
	LinearTech	LT1014	
HA5320	**AD**	**AD389**	**(3532)**
	Burr-Brown	**SHC5320**	**(3471)**
	Datel	SHM20	
	TeledyneP	TP4866	
HA5330	Sipex	SP5330	
HA7681	Cypress	CY7C281	
HC5502	GEC Plessey	SL7950	
		SL7953	
HC5504	GEC Plessey	SL7950	
		SL7953	
HD15530	GEC Plessey	MA15530	
HD234	Lansdale	HL234	
HD245	Lansdale	HL245	
HD246	Lansdale	HL246	
HD248	Lansdale	HL248	
HD4702	SMC	COM8126	
		COM8146	
HD6405	SMC	COM8126	
		COM8146	
HD6600	Lansdale	HL6600	
HD82C54	UMC	UM82C54	
HD82C55	UMC	UM82C55	
HD82C88	UMC	UM82C88	
HFA0001	AD	AD3554	
		AD9617	
	Burr-Brown	**3554**	**(3459)**
	Comlinear	CLC400	
		CLC420	
		CLC424	
HFA0002	**Burr-Brown**	**OPA621**	**(3460)**
	Comlinear	CLC420	
		CLC424	
HFA0003	**AD**	**AD96685**	**(3537, 3539)**
	Maxim	MAX9685	
		MAX9690	
HFA0005	**Burr-Brown**	**OPA620**	**(3460)**
	Comlinear	CLC401	
		CLC402	
		CLC420	
		CLC424	
HFA1100	Comlinear	CLC401	
		CLC402	
		CLC404	
		CLC406	
		CLC409	
	Elantec	EL2130	
		EL2171	
HFA1105	Burr-Brown	OPA623	
	Comlinear	CLC400	
		CLC401	
		CLC402	
		CLC404	
			(Continued)
HFA1105	Comlinear		(Cont'd)
		CLC406	
		CLC409	
HFA1110	**AD**	**AD9620**	**(3530)**
		AD9630	**(3530)**
	Comlinear	CLC110	
	Elantec	EL2072	
HFA1120	Elantec	EL400	
HFA1130	Comlinear	CLC501	
		CLC502	
HFA1135	Comlinear	CLC501	
		CLC502	
HFA1145	Comlinear	CLC410	
		CLC411	
HFA1205	Elantec	EL2232	
		EL2260	
	LinearTech	LT1229	
HFA1405	Comlinear	CLC414	
		CLC415	
	Elantec	EL2460	
	LinearTech	LT1230	
HFA1412	Comlinear	CLC114	
		CLC115	
HFA3101	NEC	μPA101	
HFA3102	NEC	μPA102	
HFA3600	**Philips**	**SA600**	**(3731)**
HFA5033	**Burr-Brown**	**BUF600**	**(3459)**
HF10	Exar	XR1010	
	National	MF10	
HF201	National	LF13201	
HIDAC16	Burr-Brown	DAC700	
		DAC703	
HIDAC80	AD	ADDAC80	
	Burr-Brown	DAC80	
	MicroNet	DAC80	
	Sipex	HS346	
	TeledyneC	TPDAC80	
HIDAC85	AD	ADDAC85	
	Burr-Brown	DAC85	
	MicroNet	DAC85	
◆ HIDAC87	AD	ADDAC87	
	Burr-Brown	DAC87	
	MicroNet	**DAC87**	**(3692)**
	Sipex	DAC347	
		HSDAC87	
		HSDA387	
HIP1030	National	LM1921	
HI0200	Harris	DG200	
HI0201	AD	ADG201	
	Harris	DG201	
	Maxim	HI0201	
HI0303	Harris	DG303	
HI0304	Harris	DG304	
	Maxim	DG304	
HI0305	Harris	DG305	
	Maxim	DG305	
HI0306	Harris	DG306	
	Maxim	DG306	
HI0307	Harris	DG307	
	Maxim	DG307	
HI0381	Harris	DG381	
	Maxim	DG381	
HI0384	Harris	DG384	
	Maxim	DG384	
HI0387	Harris	DG387	
	Maxim	DG387	
HI0390	Harris	DG390	
	Maxim	DG390	
HI0506	AD	ADG506	
	Harris	DG506	
HI0507	AD	ADG507	
	Harris	DG507	
HI0508	AD	ADG508	
	Harris	DG508	
		IH5108	
	Maxim	DG508	
		MAX358	
HI0508A	Harris	HI0548	
HI0509	AD	ADG509	
	Harris	DG509	
	Maxim	DG509	
		MX359	
HI0509A	Harris	HI0549	
HI0548	Harris	HI0508A	
	Maxim	MAX358	
		MAX359	
		MAX378	
HI0549	Harris	HI0509A	
	Maxim	MAX359	
		MAX379	
HI1166	AD	AD9028	
	Sony	CXA1076A	
			(Continued)
HI1166	Sony		(Cont'd)
		CXA1166	
		CXA1176A	
HI1171	Datel	DAC-HF8	
	Sierra	SC11401	
		SC11402	
	TI	TLC5602	
HI1175	MicroPwr	MP8785A	
	Signal Proc	SPT1175	
	TRWLSI	TMC1175	
HI1176	MicroPwr	MP8785A	
	Signal Proc	SPT1175	
	TRWLSI	TMC1175	
HI1276	Sony	CXA1276	
HI1386	**AD**	**AD9012**	**(3508)**
	Sony	CXA1056	
		CXA1386	
HI1396	Sony	CXA1066	
		CXA1396	
		CX20116	
HI1574	MicroPwr	MP574	
HI1574A	Signal Proc	HADC574Z	
HI1674	MicroPwr	MP674	
HI1774	MicroPwr	MP774	
	Signal Proc	SPT774	
HI1818	AD	MUX08	
HI1828	AD	MUX24	
HI200	AD	SW05	
	Siliconix	DG200	
	Unitrode	PIC7513	
HI201	AD	ADG201	
		AD7511	
		SW201	
	National	LF13201	
	NJR	NJU201A	
	Siliconix	DG201	
		DG271	
HI201HS	**AD**	**ADG201HS**	**(3534)**
HI20201	**AD**	**AD9720**	**(3517)**
	Datel	DAC-330	
	Raytheon	TDC1141	
	Sony	CX20201A-1	
	TRWLSI	TDC1141	
HI20203	Sony	CX20201A-3	
HI300	AD	SW05	
	National	AH5020	
	Siliconix	DG300	
HI301	Siliconix	DG301	
HI302	Maxim	DG302	
	Siliconix	DG302	
HI303	AD	SW06	
	Maxim	DG303	
	Siliconix	DG303	
HI304	Maxim	DG304	
	Siliconix	DG304	
HI305	Maxim	DG305	
	Siliconix	DG305	
HI306	Maxim	DG306	
	Siliconix	DG306	
HI307	Maxim	DG307	
	Siliconix	DG307	
HI381	AD	SW05	
	Maxim	DG381	
	Siliconix	DG381	
HI384	Maxim	DG384	
	Siliconix	DG384	
		DG405	
HI387	Maxim	DG387	
	Siliconix	DG387	
HI390	AD	SW06	
	Maxim	DG390	
	Siliconix	DG390	
		DG403	
HI5040	Maxim	IC5040	
		IH5040	
	Siliconix	DG5040	
HI5041	Maxim	IC5041	
		IH5041	
	Siliconix	DG401	
		DG5041	
HI5042	Maxim	IH5042	
		IH5043	
	Siliconix	DG5042	
	TI	TL188	
HI5043	AD	AD7512	
	Maxim	IH5043	
	Siliconix	DG403	
		DG5043	
	TI	TL191	
HI5044	Maxim	IH5044	
	Siliconix	DG5044	
HI5045	Maxim	IH5045	
	Siliconix	DG405	
		DG5045	
	TI	TL185	
HI5048	Maxim	IH5048	
		IH5148	
HI5049	Maxim	IH5049	
HI5050	Maxim	IH5050	
HI5051	Maxim	IH5051	
HI506	AD	ADG506	
		AD7506	
		MUX16	
	Burr-Brown	HI506A	
		MPC16	
		MPC506	
	Maxim	HI506	
	Siliconix	DG506	
HI507	AD	ADG507	
		AD7507	
		MUX28	
	Burr-Brown	HI507A	
		MPC507	
		MPC8	
	Maxim	HI507	
	Siliconix	DG507	
HI508	AD	ADG508	
		MUX08	
		MUX88	
	Burr-Brown	HI508A	
		MPC508	
		MPC8	
	Maxim	MAX358	
	Siliconix	DG508	
		DG528	
HI508A	Lin Int Sys	LS508A	
	Siliconix	DG458	
HI509	AD	ADG509	
		MUX24	
	Burr-Brown	HI509A	
		MPC4	
		MPC509	
	Maxim	HI509	
		MAX359	
	Siliconix	DG509	
		DG529	
HI509A	Siliconix	DG459	
HI516	Burr-Brown	MPC800	
HI518	Burr-Brown	MPC801	
HI546-5	Burr-Brown	MPC16	
HI547-5	Burr-Brown	MPC8	
HI548	Burr-Brown	MPC8	
	Maxim	MAX358	
		MAX378	
	Siliconix	DG458	
HI549	Maxim	MAX359	
		MAX379	
	Siliconix	DG459	
HI549-5	Burr-Brown	MPC4	
HI562	AD	AD562	
		PM562	
HI565	AD	AD565	
	Maxim	MX565	
	National	DAC1265	
HI565A	AD	AD565	
	Harris	DAC1265	
	Maxim	AD565	
		MX565	
	Motorola	MC3412	
	National	DAC1265	
HI5660	Burr-Brown	DAC80	
	National	DAC1266	
HI5680	Burr-Brown	DAC80	
HI5685	Burr-Brown	DAC85	
		DAC85H	
	MicroNet	DAC80	
		DAC85	
HI5687	Burr-Brown	DAC87	
		DAC87H	
HI5690	Burr-Brown	DAC80	
HI5700	AD	ADG9048	
	MicroPwr	MP7684	
		MP8750	
HI5701	**Harris**	**CA3306**	**(3639)**
	Maxim	MAX131	
	MicroPwr	MP7682	
		MP7686	
HI574	Adv Analog	ADC574	
	AD	ADADC80	
		AD574	
	Burr-Brown	ADC574	
	Datel	ADCHX12	
		ADCL12B2	
		ADCMAI13B2	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
HI574	Datel		(Cont'd)
		ADCMA12	
		ADC574	
	Maxim	AD574	
		MX574	
	MicroPwr	MP574	
	National	ADC1210	
		ADC1211	
	Signal Proc	HADC574	
	Sipex	HS574	
HI574A	MicroNet	MN574A	
		MN674A	
HI5811	Burr-Brown	DAC811	
HI5812	**AD**	**AD7875**	**(3509)**
	Maxim	MX7572	
HI674	Adv Analog	ADC674	
	AD	ADADC84	
		ADADC85	
		AD674	
	Burr-Brown	ADC674	
		ADC80	
		ADC84	
	Datel	ADCHX12	
		ADCL12B2	
		ADCMA12B2	
		ADCM12B2	
		ADC674	
	Harris	HI674	
	Maxim	AD674	
		MX674	
	MicroNet	ADC80	
		ADC84	
	Signal Proc	HADC674	
	Sipex	HS5200	
		HS574	
HI674A	MicroNet	MN674	
		MN674A	
	Signal Proc	HADC674Z	
HI685	MicroNet	DAC80	
		DAC85	
HI7131	Maxim	MAX131	
HI7151	AD	AD571	
		AD573	
		AD7579	**(3510)**
		AD7580	**(3510)**
	Maxim	MAX177	
HI7152	AD	AD571	
		AD573	
		AD7580	**(3510)**
		AD7589	
	Maxim	MAX173	
		MX151	
HI7541	AD	PM7541	
HI774	AD	ADADC84	
		ADADC85	
		AD5240	
		AD774	
	Burr-Brown	ADC774	
		AD774	
	Maxim	MAX174	
		MX774	
	MicroNet	MN77A	
		MN774	
HMA510	AD	ADSP1010	
	Cypress	CY7C510	
	IDT	IDT7210	
	LogicDev	LMA1010	
	LSI Comp	L64010	
	Waferscale	WS59510	
HMU16	AD	AM29516	
	Cypress	CY7C516	
	IDT	IDT7216	
	LogicDev	LMU16	
		LMU216	
HMU17	AD	AM29517	
	Cypress	CY7C517	
	IDT	IDT7217	
	LogicDev	LMU17	
		LMU217	
♦ HM0104	Lansdale	HL0104	
♦ HM0168	Lansdale	HL0168	
♦ HM0186	Lansdale	HL0186	
♦ HM0198	Lansdale	HL0198	
♦ HM0410	Lansdale	HL0410	
HM20256	SGS-Thomson	MK4832	
HM435101	Hughes	H1822	
HM6116	SGS-Thomson	MK6116	
HM6402	SMC	COM8017	
HM6504	AMD	AM92L44	
	Fujitsu	MB8404	
			(Continued)
HM6504			(Cont'd)
	Hitachi	HM4315	
		HM6147	
	Motorola	MCM6504	
	National	MM6504	
	OKI	MSM5104	
	S-MOS	SRM6504	
	Toshiba	TC5504	
HM6508	Fujitsu	MB8401	
	Harris	CDM1821	
		CDM6508	
	Motorola	MCM6508	
	National	MM6508	
		MM74C929	
	NEC	μPD443	
	Toshiba	TC5508	
HM6514	AMD	AM91L14	
		AM91L24	
	Fujitsu	MB8414	
	Hitachi	HM4334	
		HM6148	
	Mitsubishi	M5M58981	
	Motorola	MCM6514	
	NEC	μPD444	
	OKI	MSM5114	
		MSM5115	
	S-MOS	SRM6514	
	Toshiba	TC5514	
HM6516	LogicDev	L6116	
	National	MM6516	
♦ HM6516	Rochester	68CE16	
HM65162	Cypress	CY6116	
	Fujitsu	MB8416	
	Hitachi	HM6116	
	IDT	IDT6116	
	Mitsubishi	M5M5117	
	Motorola	MCM65116	
	National	MM6116	
	NEC	μPD446	
	OKI	MSM5128	
	S-MOS	SRM2016	
	Toshiba	TC5517	
HM6518	Motorola	MCM6518	
	National	MM6518	
		MM74C930	
HM65261	SGS-Thomson	IMS1403	
HM65262	Cypress	CY7C167	
	Fujitsu	MB8167	
	Hitachi	HM6167	
	IDT	IDT6167	
	LogicDev	L7C167	
	S-MOS	SRM2267	
		SRM2367	
HM6551	American Micro	S6551	
	National	MM6551	
		MM74C920	
	Toshiba	TC5101	
HM65642	AMD	AM99C88	
	EDI	EDH8808	
	Fujitsu	MB8464	
	Hitachi	HM6264	
	IDT	IDT7M864	
		IDT7164	
		IDT8M864	
	Mitsubishi	M5M5164	
	Motorola	MCM6164	
	National	MM6164	
	NEC	μPD4464	
	S-MOS	SRM2064	
		SRM2264	
	Toshiba	TC5564	
		TC5565	
♦ HM65642	Rochester	68CE64	
HM65748	SGS-Thomson	IMS1223	
HM65764	SGS-Thomson	IMS1630	
HM65767	SGS-Thomson	IMS1403	
HM65768	SGS-Thomson	IMS1423	
		MK41H68	
HM65787	SGS-Thomson	IMS1600	
♦ HM7602	Lansdale	HL7602	
♦ HM7603	Lansdale	HL7603	
	Rochester	18S030	
♦ HM7610	Lansdale	HL7610	
♦ HM7611	Lansdale	HL7611	
			(Continued)
HM76161	AMD	AM27PS291	
	Cypress	CY7C291	
		CY7C292	
	Waferscale	WS57C191	
♦ HM76161	Lansdale	HL76161	
♦ HM76165	Lansdale	HL76165	
♦ HM7620	Lansdale	HL7620	
♦ HM7621	Lansdale	HL7621	
♦ HM76321	Lansdale	HL76321	
♦ HM7640	Lansdale	HL7640	
♦ HM7641	Lansdale	HL7641	
♦ HM7642	Lansdale	HL7642	
♦ HM7643	Lansdale	HL7643	
♦ HM7644A	Lansdale	HL7644A	
♦ HM7649	Lansdale	HL7649	
HM76641	Cypress	CY7C264	
	Microchip	27HC641	
	Waferscale	WS57C49	
♦ HM76641	Lansdale	HL76641	
HM7681	Cypress	CY7C282	
♦ HM7681	Lansdale	HL7681	
♦ HM7685	Lansdale	HL7685	
HPL16LC8	Cypress	CYPALC16L8	
	Lattice	GAL16V8	
HPL16RC4	Cypress	CYPALC16R4	
	Lattice	GAL16V8	
HPL16RC6	Cypress	CYPALC16R6	
	Lattice	GAL16V8	
HPL16RC8	Cypress	CYPALC16R8	
	Lattice	GAL16V8	
♦ HPROM0512	**Lansdale**	**HL0512**	**(3664)**
HSP9520	AMD	AM9520	
	LogicDev	L29C520	
	Waferscale	WS59520	
HSP9521	GEC Plessey	SL521	
	LogicDev	L29C521	
	Waferscale	WS59521	
HS15530	GEC Plessey	MAS15530	
HS3182	Holt	HI8382	
HS3282	Holt	HI8282	
HS54C138RH	National	MM54C107	
ICH8530	National	LH0101	
ICL101	Motorola	LM101	
ICL232	**AD**	**AD232**	**(3514)**
	LinearTech	LT1081	
	Maxim	MAX232	
	TeledyneC	TC232	
		TSC232	
	TeledyneP	TC232	
ICL301	Motorola	LM301	
ICL420	Maxim	MAX420	
ICL421	Maxim	MAX421	
ICL422	Maxim	MAX422	
ICL423	Maxim	MAX423	
ICL5108	AD	MUX08	
ICL6108	AD	MUX08	
ICL644	Maxim	MAX654	
ICL645	Maxim	MAX655	
ICL646	Maxim	MAX656	
ICL647	Maxim	MAX657	
ICL7106	GEC Plessey	ZN450	
		ZN451	
	Maxim	ICL7106	
	TeledyneC	TC7106	
		TSC7106	
ICL7107	Maxim	ICL7107	
	TeledyneC	TC7107	
		TSC7107	
ICL7109	Maxim	ICL7109	
	TeledyneC	TC7109	
		TSC7109	
ICL7109A	TeledyneC	TC7109A	
ICL7114	National	ADC1205	
		ADC1225	
♦ ICL7115	**AD**	**AD679**	**(3509)**
ICL7116	GEC Plessey	ZN451	
	Maxim	ICL7116	
		MAX136	
	TeledyneC	TC7116	
		TSC7116	
		TSC810	
ICL7117	Maxim	ICL7117	
	TeledyneC	TC7117	
		TSC7117	
ICL7121	AD	ADDAC71	
		ADDAC72	
	Burr-Brown	DAC70	
		DAC71	
		DAC72	
	MicroNet	DAC71	
ICL7126	Maxim	ICL7126	
	Samsung	KS7126	
			(Continued)
ICL7126			(Cont'
	TeledyneC	TC7126	
		TSC7126	
ICL7129	Maxim	ICL7129	
		MAX7129	
	TeledyneC	TC7129	
		TSC7129	
♦ ICL7134	AD	AD7534	
		AD7535	
		AD7536	
		AD7538	**(3517**
♦ ICL7134	Maxim	MX7534	
		MX7535	
		MX7536	
ICL7135	Maxim	ICL7135	
	TeledyneC	TC7135	
		TSC7135	
	TI	ICL7135	
		TLC7135	
ICL7136	Maxim	ICL7136	
		MAX131	
	TeledyneC	TC7136	
		TSC7136	
ICL7137	Maxim	ICL7137	
	TeledyneC	TSC7211	
ICL7149	TeledyneC	TSC805	
		TSC815	
♦ ICL7182	TeledyneC	TSC825	
ICL741	Motorola	MC1741	
ICL76L1	**NJR**	**NJU7001**	**(370**
ICL76L2	**NJR**	**NJU7002**	**(370**
ICL76L4	**NJR**	**NJU7004**	**(370**
ICL76M1	NJR	NJU7021	
ICL76M2	NJR	NJU7022	
ICL76M4	NJR	NJU7024	
ICL761	NJR	NJU7031	
ICL7611	AD	OP80	
	Maxim	ICL7611	
	Motorola	MC1776	
	SGS-Thomson	MC1776	
	TI	TLC271	
ICL7612	Maxim	ICL7612	
	TI	TLC271	
ICL7613	TI	TLC271	
ICL7614	Maxim	ICL7614	
ICL762	NJR	NJU7032	
ICL7621	Maxim	ICL7621	
	Samsung	KS272	
	TI	TLC272	
ICL7622	Maxim	ICL7622	
ICL7631	Maxim	ICL7631	
ICL7632	Maxim	ICL7632	
ICL764	NJR	NJU7034	
ICL7641	Maxim	ICL7641	
	Samsung	KS274	
	TI	TLC27L9	
		TLC274	
ICL7642	Maxim	ICL7642	
	TI	TLC27M9	
ICL7644	Lansdale	HL7644	
ICL7650	AD	OP177	
	LinearTech	LTC1050	
		LTC1052	
	Maxim	ICL7650	
	Motorola	MC668	
	National	LMC668	
	TeledyneC	TC7650	
ICL7650S	Datel	AM7650	
	LinearTech	LTC1050	
	Maxim	ICL7650	
	National	LMC668	
	TeledyneC	TSC7650	
ICL7652	LinearTech	LTC1052	
		LTC7652	
	Maxim	ICL7652	
	TeledyneC	TC7652	
	TI	TLC2652	
		TLC2654	
ICL7660	LinearTech	LTC1044	
		LTC1054	
	Maxim	ICL7660	
		MAX660	
	National	LMC7660	
	NJR	**NJU7660**	**(370**
	Siliconix	SI7660	
	TeledyneC	TC7660	
	TI	LTC1044	
ICL7660S	Datel	VI7660	
	LinearTech	LTC1044	
	Maxim	ICL7660	
	National	LMC7660	
			(Continued

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

facturer ice	Replacement Source	Device	IC Master Page
7660S			(Cont'd)
	Siliconix	SI7660	
	TeledyneC	TSC7660	
7662	Maxim	ICL7662	
		SI7661	
	NJR	**NJU7662**	**(3705)**
	Siliconix	SI7661	
	TeledyneC	TC7662	
		TC7662A	
		TSC7662	
7663	Maxim	ICL7663	
		MAX666	
7663S	Maxim	MAX633	
7664	Maxim	ICL7664	
		MAX664	
7665	Maxim	ICL7665	
7665S	Maxim	ICL7665	
7667	Maxim	ICL7667	
		MAX626	
		MAX667	
		TSC426	
	Micrel	**MIC426**	**(3688)**
		MIC4426	**(3688)**
	Motorola	MC34151	
		MMH0026	
	National	DS0026	
	TeledyneC	TC426	
		TSC426	
L8001	Motorola	LM111	
L8007	AD	OP41	
	Motorola	MC1709	
L8008	AD	OP177	
	Motorola	LM301	
L8013	Motorola	MC1594	
L8017	Motorola	LM301	
L8021	AD	OP22	
L8023	Raytheon	TL8023	
L8038	Exar	XR8038	
L8043	AD	OP215	
L8069	AD	AD589	
	GEC Plessey	REF12	
	Lin Int Sys	LS5010	
	LinearTech	LM185	
		LM385	
		LT1004	
	Maxim	ICL8069	
	MicroPwr	MP5010	
	Motorola	LM385	
	National	LM113	
		LM313	
		LM385	
	TeledyneC	TSC04	
		TSC9491	
L8211	Maxim	MAX8211	
L8212	Maxim	MAX8212	
L8500	AD	OP80	
M7206	GEC Plessey	MV5089	
M7211	Maxim	ICM7211	
	TeledyneC	TC7211	
M7211A	TeledyneC	TC7211A	
M7212	Maxim	ICM7212	
	TeledyneC	TC7212	
		TSC7212	
M7212A	TeledyneC	TC7212A	
M7217	Maxim	ICM7217	
M7218	Maxim	ICM7218	
M7224	Maxim	ICM7224	
M7225	Maxim	ICM7225	
M7228	Maxim	ICM7218	
M7231	Maxim	MAX7231	
M7232	Maxim	MAX7232	
M7233	Maxim	MAX7233	
M7234	Maxim	MAX7234	
M7240	Exar	XR2240	
	Maxim	ICM7240	
M7242	Exar	XR2242	
	Maxim	ICM7242	
M7250	Maxim	ICM7250	
M7555	Exar	XRL555	
	Holt	HI7555	
	Maxim	ICM7555	
	National	LMC555	
	NEC	µPD5555	
	Philips	ICM7555	
	Samsung	KS5357	
	SGS-Thomson	LMC555	
	TI	TLC555	
M7556	Exar	XRL556	
	Maxim	ICM7556	
	Motorola	MC3456	
		MC3556	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
ICM7556			(Cont'd)
	National	ICM7556	
		LM556	
	NEC	µPD5556	
	Philips	NE556	
		SA556	
		SE556	
	Samsung	KS556	
		NE556	
	SGS-Thomson	LM556	
		NE556	
		SA556	
		SE556	
	TI	NE556	
		SA556	
		SE556	
		TLC556	
ICM8038	Exar	XR8038	
ICM8240	Exar	XR2240	
IH5010	National	AH5010	
IH5011	National	AH5011	
IH5012	National	AH5012	
IH5040	Maxim	IH5040	
IH5041	Maxim	IH5041	
	Siliconix	DG401	
IH5042	Maxim	IH5042	
IH5043	Maxim	IH5043	
	Siliconix	DG403	
		DG5043	
IH5044	Maxim	IH5044	
IH5045	Maxim	IH5045	
IH5048	Maxim	IH5048	
IH5049	Maxim	IH5049	
IH5050	Maxim	IH5050	
IH5051	Maxim	IH5051	
IH5108	Burr-Brown	MPC508	
		MPC8	
		MPC801	
	Harris	HI0508	
	Maxim	IH5108	
	Siliconix	DG458	
IH5110	AD	SMP11	
IH5111	AD	SMP11	
IH5112	AD	SMP11	
IH5113	AD	SMP11	
IH5114	AD	SMP11	
IH5115	AD	SMP11	
IH5140	Maxim	IH5140	
	Siliconix	DG5140	
IH5141	Maxim	IH5141	
		IH5142	
	Siliconix	DG401	
		DG5141	
IH5142	Maxim	IH5142	
	Siliconix	DG5142	
IH5143	Maxim	IH5143	
	Siliconix	DG403	
		DG5143	
IH5144	Maxim	IH5144	
	Siliconix	DG5144	
IH5145	Maxim	IH5145	
	Siliconix	DG405	
		DG5145	
IH5148	Maxim	IH5148	
IH5151	Maxim	IH5051	
IH5208	AD	MUX24	
	Burr-Brown	HI507A	
		MPC4	
		MPC507	
		MPC801	
	Maxim	IH5208	
	Siliconix	DG459	
IH532	Maxim	IH5352	
IH5341	Maxim	IH5341	
IH5352	Maxim	IH5352	
IH6106	National	LF13508	
IH6108	AD	MUX08	
	Burr-Brown	MPC508	
		MPC8	
		MPC801	
	Maxim	IH6108	
	National	LF13508	
	Siliconix	DG508	
IH6116	AD	MUX16	
	Burr-Brown	HI506A	
		MPC16	
		MPC506	
		MPC800	
	Maxim	IH6116	
IH6206	National	LF13509	

Manufacturer Device	Replacement Source	Device	IC Master Page
IH6208	AD	MUX24	
	Maxim	IH6208	
	Siliconix	DG590	
IH6216	AD	MUX28	
	Burr-Brown	HI507A	
		MPC507	
		MPC8	
	Maxim	IH6216	
♦ IH6216	AD	MUX28	
♦ IM5600	Lansdale	HL7602	
♦ IM5603	Lansdale	HL7610	
♦ IM5604	Lansdale	HL7620	
♦ IM5605	Lansdale	HL7640	
♦ IM5610	Lansdale	HL7603	
♦ IM5623	Lansdale	HL7611	
♦ IM5624	Lansdale	HL7621	
♦ IM5625	Lansdale	HL7641	
IM6316	Hughes	H23C16	
IM6551	Hughes	H1822	
ISP9210	LogicDev	LDI2010	
		LMA1010	
ISP9520	LogicDev	L29C520	
ISP9521	LogicDev	L29C521	
IT120	Lin Int Sys	LS120	
IT120A	Lin Int Sys	LS120A	
IT121	Lin Int Sys	LS121	
IT122	Lin Int Sys	LS122	
IT124	Lin Int Sys	LS124	
IT126	Lin Int Sys	LS312	
IT127	Lin Int Sys	LS312	
IT128	Lin Int Sys	LS312	
IT129	Lin Int Sys	LS311	
IT130	Lin Int Sys	LS130	
IT130A	Lin Int Sys	LS352	
IT131	Lin Int Sys	LS351	
IT132	Lin Int Sys	LS351	
IT136	Lin Int Sys	LS352	
IT137	Lin Int Sys	LS352	
IT138	Lin Int Sys	LS351	
IT139	Lin Int Sys	LS351	
IT500	Lin Int Sys	LS844	
IT501	Lin Int Sys	LS844	
IT502	Lin Int Sys	LS844	
IT503	Lin Int Sys	LS845	
IT504	Lin Int Sys	LS845	
IT505	Lin Int Sys	LS845	
IT550	Lin Int Sys	LS5912C	
IT5911	Lin Int Sys	LS5911	
IT5912	Lin Int Sys	LS5912	
LF13509	National	LF13509	
LF155	LinearTech	LF1055	
		LF155	
LF156	LinearTech	LF156	
LF353	AD	OP215	
	Burr-Brown	OPA2111	
LF355	AD	OP15	
	LinearTech	LF355	
LF356	LinearTech	LF356	
LH2108	LinearTech	LH2108	
LM101	LinearTech	LM101	
LM107	LinearTech	LM107	
LM108	AD	PM1008	
	LinearTech	LM108	
		LT1008	
LM111	LinearTech	LM111	
		LT1011	
		LT111	
LM124	LinearTech	LT1014	
LM1822	Motorola	MC13010	
LM1823	National	LM1823	
LM201	Motorola	LM201	
LM2904	Motorola	LM2904	
LM308	AD	PM1008	
LM311	**AD**	**PM211**	**(3539)**
LM324	AD	OP421	
	Motorola	LM324	
LM3302	National	LM3302	
	Samsung	LM3302	
	TI	LM3302	
LM358	Motorola	LM358	
LM723	Fujitsu	MB3752	
	Motorola	MC1723	
LM741	Motorola	MC1741	
	National	LM741	
LM748	Motorola	MC1748	
MC3358	AnalogSys	MA336	
MWS5101	Sharp	LH5101	
MWS5114	Sharp	LH5114H	
NE592	Philips	NE592	
OP05	AD	OP05	
OP07	AD	OP07	
U401	Lin Int Sys	LSU401	
U402	Lin Int Sys	LSU402	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
U403	Lin Int Sys	LSU403	
U404	Lin Int Sys	LSU404	
U405	Lin Int Sys	LS845	
U406	Lin Int Sys	LS845	
2N3810	Lin Int Sys	LS352	
2N3810A	Lin Int Sys	LS352	
2N3811	Lin Int Sys	LS352	
2N3811A	Lin Int Sys	LS352	
2N3921	Lin Int Sys	LS844	
2N3922	Lin Int Sys	LS844	
2N3954	Lin Int Sys	LS3954	
		LS3954A	
2N3955	Lin Int Sys	LS3955	
2N3955A	Lin Int Sys	LS3954	
2N3956	Lin Int Sys	LS3956	
2N3957	Lin Int Sys	LS3956	
2N3958	Lin Int Sys	LS3958	
2N4044	Lin Int Sys	LS312	
2N4045	Lin Int Sys	LS312	
2N4100	Lin Int Sys	LS312	
2N4880	Lin Int Sys	LS312	
2N5117	Lin Int Sys	LS352	
2N5118	Lin Int Sys	LS352	
2N5119	Lin Int Sys	LS351	
2N5196	Lin Int Sys	LS840	
2N5197	Lin Int Sys	LS841	
2N5198	Lin Int Sys	LS841	
2N5199	Lin Int Sys	LS842	
2N5452	Lin Int Sys	LS840	
2N5453	Lin Int Sys	LS840	
2N5454	Lin Int Sys	LS840	
2N5515	Lin Int Sys	LS840	
2N5516	Lin Int Sys	LS841	
2N5517	Lin Int Sys	LS841	
2N5518	Lin Int Sys	LS842	
2N5519	Lin Int Sys	LS842	
2N5520	Lin Int Sys	LS840	
2N5521	Lin Int Sys	LS841	
2N5522	Lin Int Sys	LS841	
2N5523	Lin Int Sys	LS842	
2N5524	Lin Int Sys	LS842	
2N5902	Lin Int Sys	LS830	
2N5903	Lin Int Sys	LS830	
2N5904	Lin Int Sys	LS830	
2N5905	Lin Int Sys	LS5905	
2N5906	Lin Int Sys	LS5906	
2N5907	Lin Int Sys	LS5907	
2N5908	Lin Int Sys	LS5908	
2N5909	Lin Int Sys	LS5909	
2N5911	Lin Int Sys	LS5911	
2N5912	Lin Int Sys	LS5912	
2N6483	Lin Int Sys	LS844	
2N6484	Lin Int Sys	LS844	
2N6485	Lin Int Sys	LS845	
27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
♦ 3N1633	Ideal Semi	ISI3N1633	
3046	Ideal Semi	ISI73046	
3054	Ideal Semi	ISI73054	
5114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
6514	Krueger	21C14-150	
		21C14-200	
		21C14-450	
7211	Hughes	H7211	
80C286	AMD	80286	
	Intel	80C286	
		80286	
	Krueger	80C286	
80C86	Intel	80C86	
	NEC	µPD70116	
	OKI	MSM80C86	
		MSM80C86A	
80C88	Intel	80C88	
	NEC	µPD70108	
	OKI	MSM80C88	
		MSM80C88A	
82C37	Mitsubishi	M5M82C37	
	OKI	MSM82C37	
	Samsung	KS82C37	
	VLSI Tech	VL82C37	
82C50	VLSI Tech	VL82C50	
	Western	WD82C50	
82C52	OKI	MSM82C51	
82C54	AMD	AM82C54	
	Intel	82C54	
	Mitsubishi	M5M82C54	
	NEC	µPD71054	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page
82C54			(Cont'd)
	OKI	MSM82C54	
		M5M82C54	
	Samsung	KS82C54	
	VLSI Tech	VL82C54	
82C55	AMD	AM82C55	
	Intel	82C55	
	Mitsubishi	M5M82C55	
	NEC	µPD71055	
	OKI	MSM82C55	
	Samsung	KS82C55	
82C59	AMD	AM82C59	
	Intel	82C59	
	Mitsubishi	M5M82C59	
	NEC	µPD71059	
	OKI	MSM82C59	
	Samsung	KS82C59	
	VLSI Tech	VL82C59	
82C82	AMD	MMI82C82	
	NEC	µPD71082	
82C83	AMD	MMI82C83	
	NEC	µPD71083	
82C84	Intel	82C84	
	NEC	µPD71084	
	OKI	MSM82C84	
	Samsung	KS82C84	
	VLSI Tech	VL82C84	
82C86	AMD	MMI82C86	
	NEC	µPD71086	
82C87	AMD	MMI82C87	
	NEC	µPD71087	
82C88	Intel	82C88	
	NEC	µPD71088	
	OKI	MSM82C88	
	Samsung	KS82C88	
	VLSI Tech	VL82C88	
8237	Samsung	KS82C37	
8510	**Apex**	**PA01**	**(3545)**
8515	**Apex**	**PA01**	**(3545)**
8520	**Apex**	**PA07**	**(3545)**
8530	**Apex**	**PA07**	**(3545)**

Hewlett-Packard

Manufacturer Device	Replacement Source	Device	IC Master Page
HCPL2200	Toshiba	TLP2200	
HCPL2530	Micropac	66088-002	
	Toshiba	TLP2530	
HCPL2531	Micropac	66088-002	
	Toshiba	TLP2531	
HCPL2601	Micropac	66056-001	
	Toshiba	TLP2601	
HCPL2611	Micropac	66056-001	
HCPL2630	Micropac	66056-002	
	Toshiba	TLP2630	
HCPL2631	Micropac	66056-002	
	Toshiba	TLP2631	
HCPL4661	Micropac	66056-002	
HCPL5700	Micropac	66058-001	
HCPL5701	Micropac	66058-001	
HCPL5730	Micropac	66058-002	
HCPL5731	Micropac	66058-102	
HCTL100	National	LM628	
4N45	Micropac	66058-001	
4N46	Micropac	66058-001	
4N55	Micropac	4N55	
6N134	Micropac	6N134	
6N135	Micropac	66088-001	
	Toshiba	6N135	
6N136	Micropac	66088-001	
	Toshiba	6N136	
6N137	Micropac	66056-001	
6N138	Micropac	66058-001	
	Toshiba	6N138	
6N139	Micropac	66058-001	
	Toshiba	6N139	
6N140	Micropac	6N140	
8102801	Micropac	8102801	
8302401	Micropac	8302401	
8767901	Micropac	8767901	

Hitachi

Manufacturer Device	Replacement Source	Device	IC Master Page
HA11423	GoldStar	GL3401	
HA11440A	GoldStar	GL3101A	
HA12411	National	LM3089	
HA13007	Allegro Micro	UDN2540	
HA13415	Allegro Micro	UDN2543	
HA13421	Allegro Micro	UDN2993	
	National	LM18293	
HA13471A	Allegro Micro	A8922	
HA13481S	MicroLinear	ML4410	
	SiliconSys	**SSI32M595**	**(3779)**
HA13490	Allegro Micro	A8932	
		A8958	
	Cherry Semi	CS7100	
		CS7105	
	SiliconSys	**SSI32H569**	**(3779)**
HA13491S	Allegro Micro	A8925	
HA13601S	Allegro Micro	A8902	
		A8903	
HA166008	Cherry Semi	CS511	
	Exar	XR501	
		XR511	
	MicroLinear	ML511	
	SiliconSys	SSI32R501-4	
		SSI32R511-4	
		SSI32R5111-4	
		SSI32R516	**(3778)**
HA166024	Exar	XR505-2	
	SiliconSys	**SSI32R1200-2**	**(3778)**
HA166025	Exar	XR505-4	
	SiliconSys	**SSI32R1200-4**	**(3778)**
HA166032	SiliconSys	SSI32R4610-2	
		SSI32R4610R-2	
HA166034	SiliconSys	SSI32R4610-4	
		SSI32R4610R-4	
HA166044	Exar	XR505R-2	
	SiliconSys	SSI32R1200R-2	
HA166045	Exar	XR505R-4	
	SiliconSys	SSI32R1200R-4	
HA16617	Allegro Micro	UDN6118	
		UDQ6118	
HA17082	National	LF353	
		LF412	
	NJR	NJM082	
	Panasonic	AN1082	
HA17084	National	LF347	
	NJR	NJM084	
	Panasonic	AN1084	
HA17094	National	LM2904	
HA17301	National	LM3301	
HA17324	National	LM324	
HA17339	National	LM339	
	NJR	NJM2901	
HA17345	Astec Semi	UC3843	
		UC3843A	
HA17358	National	LM358	
HA17384	Astec Semi	UC3842	
		UC3842A	
HA17393	National	LM393	
	NJR	NJM2903	
HA17431	Astec Semi	A431	
		TL431	
HA17458	National	LM1458	
	NJR	NJM1458	
	Panasonic	AN1458	
		AN6572	
HA17723	Fujitsu	MB3752	
HA17741	National	LM741	
	NJR	NJM741	
HA17747	National	LM747	
HA17805	American Micro	S8981	
HA17901	National	LM2901	
	NJR	NJM2901	
HA17902	National	LM2902	
	NJR	NJM2902	
	Panasonic	AN1324	
		AN6564	
HA17903	National	LM2903	
	NJR	NJM2903	
	Panasonic	AN1393	
		AN6914	
HA17904	**NJR**	**NJM2904**	**(3704)**
	Panasonic	AN1358	
		AN6562	
HA19209	GEC Plessey	SP973	
HA19501	GEC Plessey	SP97618	
HA7080	Panasonic	AN1081	
HB511000A	OKI	MSM511000A	
HB511001A	OKI	MSM511001A	
HB511002A	OKI	MSM511002A	
HB514100	OKI	MSM514100A	
HB514101	OKI	MSM514101A	
HB514102	OKI	MSM514102A	
HB514256A	OKI	MSM514256A	
HB514258A	OKI	MSM514258A	
HB514400	OKI	MSM514400A	
HB514402	OKI	MSM514402A	
HB56A18	GoldStar	GMM781000S	
	MicronSemi	MT8D18	
	Motorola	MCM81000	
	NEC	MC421000A8	
	Samsung	KMM581000	
	Toshiba	THM81000	
HB56A18B	OKI	MSC2313A	
HB56A181	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
HB56A19	MicronSemi	MT9D19	
	Motorola	MCM91000	
	NEC	MC421000A9	
	Samsung	KMM591000	
	TI	TM024EAD9	
		TM124EAD9C	
	Toshiba	THM91000	
HB56A19A	GoldStar	GMM791000S	
HB56A19B	OKI	MSC23109	
		MSC2312A	
HB56A42	NEC	MC424100A8	
HB56A436	Peps	PEP4MX36	
HB56A48	MicronSemi	MT8D48	
	Motorola	MCM84000	
	Peps	PEP4MX8	
	Samsung	KMM584000	
	Toshiba	THM84000	
HB56A48A	TI	TM4100GBD8	
HB56A48B	OKI	MSC23408	
HB56A49	GoldStar	GMM794000S	
	MicronSemi	MT9D49	
	Motorola	MCM94000	
	NEC	MC424100A9	
	Peps	PEP4MX9	
	Samsung	KMM594000	
	Toshiba	THM94000	
HB56A49A	TI	TM4100EBD9	
HB56A49B	OKI	MSC23409	
HB56B51236B	OKI	MSC2321A	
HB56C18	NEC	MC421000C8	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
HB56C19	TI	TM024EAD9	
		TM124EAD9C	
HB56D132	MicronSemi	MT8D132	
	Toshiba	THM321000	
HB56D132B	OKI	MSC23132	
HB56D132R	GoldStar	GMM7321000SG	
HB56D136	MicronSemi	MT12D136	
	NEC	MC421000A36	
	Samsung	KMM5361000	
	Toshiba	THM361020	
HB56D136B	GoldStar	GMM7361000SG	
	Motorola	MCM36100	
	OKI	MSC23136	
	Peps	PEP1MX36	
	TI	TM124MBK36A	
		TM124MBK36B	
HB56D140	OKI	MSC23140	
HB56D232	GoldStar	GMM322000SG	
	Toshiba	THM322020	
HB56D232B	OKI	MSC23232	
HB56D236	GoldStar	GMM7362000SG	
	MicronSemi	MT24D236	
	NEC	MC422000A36	
	Samsung	KMM5362000	
	Toshiba	THM362020	
HB56D236B	OKI	MSC23236	
	Peps	PEP2MX36	
HB56D240	OKI	MSC23240	
HB56D25608	Motorola	MCM84256	
	Samsung	KMM58256	
HB56D25609	Motorola	MCM94256	
	Samsung	KMM59256	
HB56D25626	Motorola	MCM36256	
HB56D25636	NEC	MC424256	
	Peps	PEP25636	
	Samsung	KMM536256	
	TI	TM256BK36B	
	Toshiba	THM362500	
HB56D25636B	OKI	MSC2320A	
HB56D51236	Motorola	MCM36256	
		MCM36512	
	NEC	MC424512A36	
	Peps	PEP51236	
	Samsung	KMM536512	
HB56D51236			(Cont'
	TI	TM512LBK36B	
		TM512LBK36C	
	Toshiba	THM365120	
HB56D51236B	GoldStar	GMM736512SG	
HB56G18	MicronSemi	MT2D18	
HB56G19	MicronSemi	MT3D19	
HB56025636B	GoldStar	GMM736256SG	
HB561003	NEC	MC41256A9	
	TI	TM256GU9	
	Toshiba	THM92500	
HB561008	Mosel-Vitelic	V256J8	
	Toshiba	THM82500	
HB561009	Mosel-Vitelic	V256J9	
HB561409	TI	TM256GU9	
HB58A19	NEC	MC421000A9	
HB66A2568	Motorola	MCM8256	
♦ HD153013	National	DP8469	
HD153014	**SiliconSys**	**SSI32D5362A**	**(377**
		SSI32D5371	**(377**
HD153021	AT&T	REACH1	
	SiliconSys	SSI32P4720	
HD153030	**AD**	**AD897**	**(354**
	National	DP8491	
HD44100	Krueger	44100	
	NJR	**NJU6407B**	**(370**
	Samsung	KS0061	
HD44102	**NJR**	**NJU6417B**	**(370**
	Samsung	KS0102	
HD44103	Samsung	KS0101	
HD44780	Krueger	44780	
	NJR	**NJU6408**	**(370**
	Samsung	KS0062	
HD46505	Krueger	6845	
HD49011	Samsung	KA9320	
♦ HD54HCT240	GEC Plessey	54HCT239SOS	
		54HCT240SOS	
♦ HD54HCT240	Harris	CD54HCT240	
	Motorola	MC54HCT240A	
	National	MM54HCT240	
	TI	SN54HCT240	
♦ HD54HC620	National	MM54HC620	
	Rochester	54HC620	
	TI	SN54HC620	
HD6301	Intel	80C51	
	Motorola	MC68HC11	
	NEC	µPD78K	
	TI	TMS7000	
	Toshiba	TMP68HC11	
	Zilog	Z8	
HD6305	Harris	CDP68HC05	
	Intel	80C48	
		80C49	
	Motorola	MC68HC06	
	National	COP800	
	Toshiba	TMP68HC05	
HD6350	Samsung	KS5824	
HD64180	Zilog	Z80180	
HD647180	Intel	80C196	
		80C51	
		8096	
	Mitsubishi	M37450	
	Motorola	MC68HC11	
	NEC	µPD78K	
	Philips	**80C451**	**(371**
	TI	TMS370	
		TMS7000	
	Toshiba	TMP68HC11	
		TMP91C640	**(382**
	Zilog	Z8	
HD66100	NJR	NJU6416	
	Samsung	KS0063	
HD66780	**NJR**	**NJU6408**	**(370**
HD66840	Samsung	KS0082	
HD68A45	UMC	UM6845	
HD68B45	UMC	UM6845	
HD6800	Krueger	6800	
HD6809	Krueger	6809	
HD6809E	Krueger	6809E	
HD6845	Krueger	6845	
	UMC	UM6845	
♦ HD74HCT125	GoldStar	GD74HCT125	
	Harris	CD74HCT125	
	Philips	74HCT125	
♦ HD74HCT126	GoldStar	GD74HCT126	
	Harris	CD74HCT126	
	Philips	74HCT126	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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HD74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
HD74HCT137	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
HD74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
HD74HCT138	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
HD74HCT237	GEC Plessey	MV74HCT237	
		74HCT237	
HD74HCT237	Harris	CD74HCT22106	
		CD74HCT237	
HD74HCT237	Philips	74HCT237	
	TI	SN74HCT237	
HD74HCT238	GEC Plessey	MV74HCT238	
		74HCT238	
HD74HCT238	Harris	CD74HCT238	
	Philips	74HCT238	
	TI	SN74HCT238	
HD74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
HD74HCT240	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
HD74HCT240	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
HD74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
HD74HCT241	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
HD74HCT241	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
HD74HCT242	Harris	CD74HCT242	
	Philips	74HCT242	
	TI	SN74HCT242	
HD74HCT243	Harris	CD74HCT243	
	Philips	74HCT243	
	TI	SN74HCT243	
HD74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
HD74HCT244	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
HD74HCT244	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
HD74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
HD74HCT245	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
			(Continued)
♦ HD74HCT245			(Cont'd)
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
♦ HD74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	
♦ HD74HCT373	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
♦ HD74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
♦ HD74HCT374	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
♦ HD74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
♦ HD74HCT533	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
♦ HD74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
♦ HD74HCT534	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
♦ HD74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
♦ HD74HCT540	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(3836)**
♦ HD74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
♦ HD74HCT541	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(3836)**
♦ HD74HCT563	GEC Plessey	MV74HCT563	
		74HCT563	
♦ HD74HCT563	Harris	CD74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	**(3836)**
♦ HD74HCT564	GEC Plessey	MV74HCT564	
		74HCT564	
♦ HD74HCT564	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
			(Continued)
♦ HD74HCT564			(Cont'd)
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	**(3836)**
♦ HD74HCT573	GEC Plessey	MV74HCT573	
		74HCT573	
♦ HD74HCT573	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
♦ HD74HCT574	GEC Plessey	MV74HCT574	
		74HCT574	
♦ HD74HCT574	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**
♦ HD74HCT620	TI	SN74HCT620	
♦ HD74HCT623	TI	SN74HCT623	
♦ HD74HCT640	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
	Universal	US74HCT640	
♦ HD74HCT643	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	Philips	74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
♦ HD74HCT646	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
♦ HD74HCT648	GoldStar	GD74HCT648	
	Harris	CD74HCT648	
	Philips	74HCT648	
	SGS-Thomson	M74HCT648	
	TI	SN74HCT648	
	Toshiba	**TC74HCT648A**	**(3836)**
♦ HD74HCT651	Harris	CD74HCT651	
	SGS-Thomson	M74HCT651	
	TI	SN74HCT651	
	Toshiba	**TC74HCT651A**	**(3836)**
♦ HD74HCT652	Harris	CD74HCT652	
	SGS-Thomson	M74HCT652	
	TI	SN74HCT652	
	Toshiba	**TC74HCT652A**	**(3836)**
♦ HD74HCT688	Harris	CD74HCT688	
	National	MM74HCT688	
	Philips	74HCT688	
	SGS-Thomson	M74HCT688	
	Toshiba	**TC74HCT688A**	**(3836)**
♦ HD74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
♦ HD74HC01	GoldStar	GD74HC01	
	TI	SN74HC01	
♦ HD74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
			(Continued)
♦ HD74HC02			(Cont'd)
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
♦ HD74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
♦ HD74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
♦ HD74HC09	GoldStar	GD74HC09	
	Mitsubishi	M74HC09	
	TI	SN74HC09	
	Toshiba	**TC74HC09A**	**(3836)**
♦ HD74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
♦ HD74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
♦ HD74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
♦ HD74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
♦ HD74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
♦ HD74HC113	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	National	MM74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	**(3836)**
♦ HD74HC114	Mitsubishi	M74HC114	
	Rochester	74HC114	
	TI	SN74HC114	
♦ HD74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123	
		MM74HC123A	
♦ HD74HC123	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	
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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ HD74HC123	Toshiba	TC74HC123	
		TC74HC123A	
♦ HD74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
♦ HD74HC126	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
♦ HD74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
♦ HD74HC133	Motorola	MC74HC133	
	National	MM74HC133	
	SGS-Thomson	M74HC133	
	TI	SN74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
♦ HD74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
♦ HD74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
♦ HD74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
♦ HD74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
♦ HD74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
			(Continued)
♦ HD74HC147			(Cont'd)
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
♦ HD74HC148	GoldStar	GD74HC148	
	National	MM74HC148	
	SGS-Thomson	M74HC148	
	TI	SN74HC148	
	Toshiba	**TC74HC148A**	**(3836)**
♦ HD74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
♦ HD74HC151	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
♦ HD74HC152	Rochester	74HC152	
	TI	SN74HC152	
♦ HD74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
♦ HD74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
♦ HD74HC155	GoldStar	GD74HC155	
	Mitsubishi	M74HC155	
	National	MM74HC155	
	SGS-Thomson	M74HC155	
	Toshiba	**TC74HC155A**	**(3836)**
♦ HD74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
♦ HD74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
♦ HD74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
♦ HD74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
			(Continued)
♦ HD74HC161			(Cont'd)
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
♦ HD74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
♦ HD74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
♦ HD74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
♦ HD74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
♦ HD74HC166	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
♦ HD74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
♦ HD74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
♦ HD74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
♦ HD74HC180	Rochester	74HC180	
	TI	SN74HC180	
♦ HD74HC181	Harris	CD74HC181	
	National	MM74HC181	
			(Continued)
♦ HD74HC181			(Cont'
	Philips	74HC181	
	SGS-Thomson	M74HC181	
	Toshiba	**TC74HC181A**	**(383**
♦ HD74HC182	Harris	CD74HC182	
	National	MM74HC182	
	Philips	74HC182	
	SGS-Thomson	M74HC182	
	Toshiba	**TC74HC182A**	**(383**
♦ HD74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(383**
	Universal	US74HC190	
♦ HD74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(383**
	Universal	US74HC191	
♦ HD74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(383**
	Universal	US74HC192	
♦ HD74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(383**
	Universal	US74HC193	
♦ HD74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(383**
	Universal	US74HC194	
♦ HD74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(383**
	Universal	US74HC195	
♦ HD74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(383**
	Universal	US74HC20	
♦ HD74HC21	GoldStar	GD74HC21	
	Harris	CD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
D74HC21			(Cont'd)
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	**(3836)**
	Universal	US74HC21	
D74HC221	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
D74HC221	**Toshiba**	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
D74HC237	Harris	CD74HC22106	
		CD74HC237	
D74HC237	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
D74HC238	Harris	CD74HC238	
	National	MM74HC238	
	Philips	74HC238	
	SGS-Thomson	M74HC238	
	TI	SN74HC238	
	Toshiba	**TC74HC238A**	**(3836)**
D74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
D74HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
D74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
D74HC241	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
D74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
D74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
D74HC244	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
D74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
D74HC245	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
D74HC245	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
			(Continued)
◆ HD74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
◆ HD74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
◆ HD74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
◆ HD74HC258	Harris	CD74HC258	
	National	MM74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
◆ HD74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
◆ HD74HC266	Mitsubishi	M74HC266	
		M74HC266A	
◆ HD74HC266	National	MM74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	**(3836)**
◆ HD74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
◆ HD74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
◆ HD74HC273	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
◆ HD74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
◆ HD74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
			(Continued)
◆ HD74HC283			(Cont'd)
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	**(3836)**
◆ HD74HC292	SGS-Thomson	M74HC292	
◆ HD74HC294	SGS-Thomson	M74HC294	
◆ HD74HC298	Motorola	MC74HC298	
	National	MM74HC298	
	SGS-Thomson	M74HC298	
	TI	SN74HC298	
	Toshiba	**TC74HC298A**	**(3836)**
◆ HD74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
◆ HD74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
◆ HD74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
◆ HD74HC323	National	MM74HC323	
	SGS-Thomson	M74HC323	
	Toshiba	**TC74HC323A**	**(3836)**
◆ HD74HC353	SGS-Thomson	M74HC353	
	TI	SN74HC353	
	Toshiba	**TC74HC353A**	**(3836)**
◆ HD74HC354	Harris	CD74HC354	
	Motorola	MC74HC354	
	National	MM74HC354	
	Philips	74HC354	
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	**(3836)**
◆ HD74HC356	Harris	CD74HC356	
	National	MM74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	**(3836)**
◆ HD74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
◆ HD74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
◆ HD74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
◆ HD74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
◆ HD74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
◆ HD74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
◆ HD74HC375	SGS-Thomson	M74HC375	
	TI	SN74HC375	
	Toshiba	**TC74HC375A**	**(3836)**
◆ HD74HC377	Harris	CD74HC377	
	Philips	74HC377	
	SGS-Thomson	M74HC377	
	TI	SN74HC377	
	Toshiba	**TC74HC377A**	**(3836)**
◆ HD74HC386	SGS-Thomson	M74HC386	
	TI	SN74HC386	
	Toshiba	**TC74HC386A**	**(3836)**
◆ HD74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
◆ HD74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
◆ HD74HC4017	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	**(3836)**
◆ HD74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ HD74HC4020			(Cont'd)
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
♦ HD74HC4022	SGS-Thomson	M74HC4022	
	TI	SN74HC4022	
	Toshiba	**TC74HC4022A**	**(3836)**
♦ HD74HC4024	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836)**
♦ HD74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836)**
♦ HD74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
♦ HD74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
♦ HD74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
♦ HD74HC4060	Harris	CD74HC4060	
	Motorola	MC74HC4060	
	National	MM74HC4060	
	Philips	74HC4060	
	SGS-Thomson	M74HC4060	
	TI	SN74HC4060	
	Toshiba	**TC74HC4060A**	**(3836)**
♦ HD74HC4066	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
♦ HD74HC4066	**Toshiba**	**TC74HC4066A**	**(3836)**
♦ HD74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
♦ HD74HC423	Harris	CD74HC423	
	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423	
		M74HC423A	
			(Continued)
♦ HD74HC423	Toshiba	TC74HC423	
		TC74HC423A	**(3836)**
♦ HD74HC4511	Harris	CD74HC4511	
	Motorola	MC74HC4511	
	National	MM74HC4511	
	Philips	74HC4511	
	SGS-Thomson	M74HC4511	
	Toshiba	**TC74HC4511A**	**(3836)**
♦ HD74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
♦ HD74HC4515	Harris	CD74HC4515	
	Philips	74HC4515	
	TI	SN74HC4515	
	Toshiba	**TC74HC4515A**	**(3836)**
♦ HD74HC4518	Harris	CD74HC4518	
	National	MM74HC4518	
	Philips	74HC4518	
	SGS-Thomson	M74HC4518	
	Toshiba	**TC74HC4518A**	**(3836)**
♦ HD74HC4520	Harris	CD74HC4520	
	National	MM74HC4520	
	Philips	74HC4520	
	Toshiba	**TC74HC4520A**	**(3836)**
♦ HD74HC4538	Harris	CD74HC4538	
	Motorola	MC74HC4538A	
	National	MM74HC4538	
	Philips	74HC4538	
	SGS-Thomson	M74HC4538	
	Toshiba	**TC74HC4538A**	**(3836)**
♦ HD74HC4543	Harris	CD74HC4543	
	National	MM74HC4543	
	Philips	74HC4543	
	SGS-Thomson	M74HC4543	
	Toshiba	TC74HC4543A	
♦ HD74HC490	TI	SN74HC490	
♦ HD74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
♦ HD74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
♦ HD74HC533	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
♦ HD74HC533	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
♦ HD74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
♦ HD74HC534	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
♦ HD74HC540	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
			(Continued)
♦ HD74HC540			(Cont'd)
	Toshiba	TC74HC5353A	
		TC74HC540A	**(3836)**
♦ HD74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
♦ HD74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555	
		74HC563	
♦ HD74HC563	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
♦ HD74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
♦ HD74HC573	Harris	CD74HC573	
	Motorola	MC74HC573A	
	National	MM74HC573	
	Philips	74HC573	
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
♦ HD74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
♦ HD74HC589	Motorola	MC74HC589	
	National	MM74HC589	
♦ HD74HC590	National	MM74HC590	
	SGS-Thomson	M74HC590	
	TI	SN74HC590A	
	Toshiba	**TC74HC590A**	**(3836)**
♦ HD74HC592	National	MM74HC592	
	SGS-Thomson	M74HC592	
	Toshiba	**TC74HC592A**	**(3836)**
♦ HD74HC593	National	MM74HC593	
	SGS-Thomson	M74HC593	
	Toshiba	**TC74HC593A**	**(3836)**
♦ HD74HC595	Mitsubishi	M74HC595	
	Motorola	MC74HC595A	
	National	MM74HC595	
	SGS-Thomson	M74HC595	
	TI	SN74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
♦ HD74HC597	Harris	CD74HC597	
	Motorola	MC74HC597	
	National	MM74HC597	
	Philips	74HC597	
	SGS-Thomson	M74HC597	
	Toshiba	TC74HC597A	
♦ HD74HC620	National	MM74HC620	
	SGS-Thomson	M74HC620	
	TI	SN74HC620	
	Toshiba	**TC74HC620A**	**(3836)**
♦ HD74HC623	National	MM74HC623	
	SGS-Thomson	M74HC623	
			(Continued)
♦ HD74HC623			(Cont
	TI	SN74HC623	
	Toshiba	**TC74HC623A**	**(38**
♦ HD74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
♦ HD74HC640	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(38**
♦ HD74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
♦ HD74HC643	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
♦ HD74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(38**
♦ HD74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(38**
♦ HD74HC651	Harris	CD74HC651	
	SGS-Thomson	M74HC651	
	TI	SN74HC651	
	Toshiba	**TC74HC651A**	**(38**
♦ HD74HC652	Harris	CD74HC652	
	SGS-Thomson	M74HC652	
	TI	SN74HC652	
	Toshiba	**TC74HC652A**	**(38**
♦ HD74HC670	Harris	CD74HC670	
	Motorola	MC74HC670	
	Philips	74HC670	
	SGS-Thomson	M74HC670	
	Toshiba	**TC74HC670A**	**(38**
♦ HD74HC677	TI	SN74HC677	
♦ HD74HC678	TI	SN74HC678	
♦ HD74HC679	TI	SN74HC679	
♦ HD74HC680	TI	SN74HC680	
♦ HD74HC682	TI	SN74HC682	
♦ HD74HC684	TI	SN74HC684	
♦ HD74HC686	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(38**
♦ HD74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(38**
♦ HD74HC73	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	Philips	74HC73	
	SGS-Thomson	M74HC73	
			(Continu

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Hitachi (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74HC73			(Cont'd)
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	**(3836)**
◆ HD74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
◆ HD74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
◆ HD74HC76	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	National	MM74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
◆ HD74HC77	SGS-Thomson	M74HC77	
	TI	SN74HC77	
	Toshiba	**TC74HC77A**	**(3836)**
◆ HD74HC83	TI	SN74HC808	
◆ HD74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
◆ HD74HC85	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
◆ HD74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
◆ HD74HC93	Harris	CD74HC93	
	Philips	74HC93	
◆ HD74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	**(3674)**
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
◆ HD74LS00	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
◆ HD74LS00	TI	SN74LS00	
◆ HD74LS01	**Lansdale**	**SL74LS01**	**(3674)**
	Motorola	SN74LS01	
	SGS-Thomson	T74LS01	
		74LS01	
◆ HD74LS01	TI	SN74LS01	
◆ HD74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	**(3674)**
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
◆ HD74LS02	SGS-Thomson	T74LS02	
		74LS02	
◆ HD74LS02	TI	SN74LS02	
◆ HD74LS03	Motorola	SN74LS03	
	National	DM74LS03	
		74LS03	
◆ HD74LS03	Rochester	74LS03	
	SGS-Thomson	T74LS03A	
		74LS03	
◆ HD74LS03	TI	SN74LS03	
			(Continued)
◆ HD74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	**(3674)**
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
◆ HD74LS04	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
◆ HD74LS04	TI	SN74LS04	
◆ HD74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	**(3674)**
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
◆ HD74LS05	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
◆ HD74LS05	TI	SN74LS05	
◆ HD74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	**(3674)**
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
◆ HD74LS08	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
◆ HD74LS08	TI	SN74LS08	
◆ HD74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	**(3674)**
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
◆ HD74LS09	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
◆ HD74LS09	TI	SN74LS09	
◆ HD74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	**(3674)**
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
◆ HD74LS10	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
◆ HD74LS10	TI	SN74LS10	
◆ HD74LS107A	GoldStar	GD74LS107A	
	Lansdale	**SL74LS107**	**(3674)**
	Motorola	SN74LS107A	
	National	DM74LS107A	
	TI	SN74LS107A	
◆ HD74LS109A	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	**(3674)**
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
◆ HD74LS109A	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
◆ HD74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	**(3674)**
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
◆ HD74LS11	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
◆ HD74LS11	TI	SN74LS11	
◆ HD74LS112	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	**(3674)**
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
◆ HD74LS112	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
◆ HD74LS113	**Lansdale**	**SL74LS113**	**(3674)**
	Motorola	SN74LS113A	
	Rochester	74LS113	
	SGS-Thomson	T74LS113A	
	TI	SN74LS113A	
◆ HD74LS114	Motorola	SN74LS114A	
	Rochester	74LS114	
	SGS-Thomson	T74LS114A	
	TI	SN74LS114A	
◆ HD74LS12	Motorola	SN74LS12	
	National	DM74LS12	
		74LS12	
◆ HD74LS12	Rochester	74LS12	
	SGS-Thomson	T74LS12	
		74LS12	
◆ HD74LS12	TI	SN74LS12	
◆ HD74LS122	Motorola	SN74LS122	
	National	DM74LS122	
	TI	SN74LS122	
◆ HD74LS123	GoldStar	GD74LS123	
	Motorola	SN74LS123	
	National	DM74LS123	
	TI	SN74LS123	
◆ HD74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
◆ HD74LS125A	**Lansdale**	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
◆ HD74LS125A	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
◆ HD74LS125A	SGS-Thomson	T74LS125A	
		74LS125A	
◆ HD74LS125A	TI	SN74LS125A	
◆ HD74LS126A	**Lansdale**	**SL74LS126A**	**(3674)**
	Motorola	SN74LS126A	
	National	DM74LS126	
		74LS126	
◆ HD74LS126A	SGS-Thomson	T74LS126A	
		74LS126	
◆ HD74LS126A	TI	SN74LS126A	
◆ HD74LS13	**Lansdale**	**SL74LS13**	**(3674)**
	Motorola	SN74LS13	
	National	74LS13	
	SGS-Thomson	T74LS13	
		74LS13	
◆ HD74LS13	TI	SN74LS13	
◆ HD74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	**(3674)**
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
◆ HD74LS132	SGS-Thomson	T74LS132	
		74LS132	
◆ HD74LS132	TI	SN74LS132	
◆ HD74LS136	**Lansdale**	**SL74LS136**	**(3674)**
	Motorola	SN74LS136	
	National	74LS136	
	SGS-Thomson	T74LS136	
		74LS136	
◆ HD74LS136	TI	SN74LS136	
◆ HD74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	**(3674)**
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
◆ HD74LS138	SGS-Thomson	T74LS138	
		74LS138	
◆ HD74LS138	TI	SN74LS138	
◆ HD74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	**(3674)**
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
◆ HD74LS139	SGS-Thomson	T74LS139	
		74LS139	
◆ HD74LS139	TI	SN74LS139A	
◆ HD74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	**(3674)**
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
◆ HD74LS14	SGS-Thomson	T74LS14	
		74LS14	
◆ HD74LS14	TI	SN74LS14	
◆ HD74LS145	GoldStar	GD74LS145	
	Motorola	SN74LS145	
	TI	SN74LS145	
◆ HD74LS148	GoldStar	GD74LS148	
	Motorola	SN74LS148	
	SGS-Thomson	T74LS148	
	TI	SN74LS148	
			(Continued)
◆ HD74LS15	GoldStar	GD74LS15	
	Motorola	SN74LS15	
	National	74LS15	
	SGS-Thomson	T74LS15	
		74LS15	
◆ HD74LS15	TI	SN74LS15	
◆ HD74LS151A	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	**(3674)**
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
◆ HD74LS151A	SGS-Thomson	T74LS151	
		74LS151	
◆ HD74LS151A	TI	SN74LS151	
◆ HD74LS152	Rochester	74LS152	
	SGS-Thomson	T74LS152	
		74LS152	
◆ HD74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	**(3674)**
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
◆ HD74LS153	SGS-Thomson	T74LS153	
		74LS153	
◆ HD74LS153	TI	SN74LS153	
◆ HD74LS154	GoldStar	GD74LS154	
	National	DM74LS154	
◆ HD74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	**(3674)**
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
◆ HD74LS155	SGS-Thomson	T74LS155	
		74LS155	
◆ HD74LS155	TI	SN74LS155A	
◆ HD74LS156	**Lansdale**	**SL74LS156**	**(3674)**
	Motorola	SN74LS156	
	National	DM74LS156	
		74LS156	
◆ HD74LS156	SGS-Thomson	T74LS156	
		74LS156	
◆ HD74LS156	TI	SN74LS156	
◆ HD74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	**(3674)**
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
◆ HD74LS157	SGS-Thomson	T74LS157	
		74LS157	
◆ HD74LS157	TI	SN74LS157	
◆ HD74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
◆ HD74LS158	Rochester	74LS158	
	SGS-Thomson	T74LS158	
		74LS158	
◆ HD74LS158	TI	SN74LS158	
◆ HD74LS160A	**Lansdale**	**SL74LS160A**	**(3674)**
	Motorola	SN74LS160A	
	National	74LS160	
	SGS-Thomson	T74LS160A	
	TI	SN74LS160A	
◆ HD74LS161A	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	**(3674)**
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
◆ HD74LS161A	SGS-Thomson	T74LS161A	
	TI	SN74LS161A	
◆ HD74LS162A	**Lansdale**	**SL74LS162A**	**(3674)**
	Motorola	SN74LS162A	
	National	74LS162	
	SGS-Thomson	T74LS162A	
	TI	SN74LS162A	
◆ HD74LS163A	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	**(3674)**
	Motorola	SN74LS163A	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74LS163A			(Cont'd)
	National	DM74LS163A	
		74LS163	
◆ HD74LS163A	SGS-Thomson	T74LS163A	
	TI	SN74LS163A	
◆ HD74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	(3674)
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
◆ HD74LS164	SGS-Thomson	T74LS164	
		74LS164	
◆ HD74LS164	TI	SN74LS164	
◆ HD74LS165A	GoldStar	GD74LS165	
	Motorola	SN74LS165	
	National	74LS165	
	TI	SN74LS165A	
◆ HD74LS170	Motorola	SN74LS170	
	National	74LS170	
	SGS-Thomson	T74LS170	
		74LS170	
◆ HD74LS170	TI	SN74LS170	
◆ HD74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	(3674)
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
◆ HD74LS174	SGS-Thomson	T74LS174	
		74LS174	
◆ HD74LS174	TI	SN74LS174	
◆ HD74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	(3674)
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
◆ HD74LS175	SGS-Thomson	T74LS175	
		74LS175	
◆ HD74LS175	TI	SN74LS175	
◆ HD74LS181	Motorola	SN74LS181	
	National	74LS181	
	SGS-Thomson	T74LS181	
		74LS181	
◆ HD74LS181	TI	SN74LS181	
◆ HD74LS190	Motorola	SN74LS190	
	National	DM74LS190	
		74LS190	
◆ HD74LS190	SGS-Thomson	T74LS190	
		74LS190	
◆ HD74LS190	TI	SN74LS190	
◆ HD74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	(3674)
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
◆ HD74LS191	SGS-Thomson	T74LS191	
		74LS191	
◆ HD74LS191	TI	SN74LS191	
◆ HD74LS192	**Lansdale**	**SL74LS192**	(3674)
	Motorola	SN74LS192	
	National	74LS192	
	SGS-Thomson	T74LS192	
		74LS192	
◆ HD74LS192	TI	SN74LS192	
◆ HD74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	(3674)
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
◆ HD74LS193	SGS-Thomson	T74LS193	
		74LS193	
◆ HD74LS193	TI	SN74LS193	
◆ HD74LS194A	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	(3674)
	Motorola	SN74LS194A	
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson	T74LS194A	
		74LS194	
◆ HD74LS194A	TI	SN74LS194A	

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74LS195A	GoldStar	GD74LS195A	
	Motorola	SN74LS195A	
	National	DM74LS195A	
	SGS-Thomson	T74LS195A	
		74LS195	
◆ HD74LS195A	TI	SN74LS195A	
◆ HD74LS197	**Lansdale**	**SL74LS197**	(3674)
	Motorola	SN74LS197	
	National	74LS197	
	SGS-Thomson	T74LS197	
		74LS197	
◆ HD74LS197	TI	SN74LS197	
◆ HD74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	(3674)
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
◆ HD74LS20	Rochester	74LS20	
	SGS-Thomson	T74LS20	
		74LS20	
◆ HD74LS20	TI	SN74LS20	
◆ HD74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	(3674)
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
◆ HD74LS21	Rochester	74LS21	
	SGS-Thomson	T74LS21	
		74LS21	
◆ HD74LS21	TI	SN74LS21	
◆ HD74LS22	Motorola	SN74LS22	
	Rochester	74LS22	
	SGS-Thomson	T74LS22	
		74LS22	
◆ HD74LS22	TI	SN74LS219A	
◆ HD74LS221	GoldStar	GD74LS221	
	Motorola	SN74LS221	
	National	DM74LS221	
	TI	SN74LS221	
◆ HD74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	(3674)
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
◆ HD74LS240	SGS-Thomson	T74LS240	
		74LS240	
◆ HD74LS240	TI	SN74LS240	
◆ HD74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	(3674)
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
◆ HD74LS241	SGS-Thomson	T74LS241	
		74LS241	
◆ HD74LS241	TI	SN74LS241	
◆ HD74LS242	GoldStar	GD74LS242	
	Lansdale	**SL74LS242**	(3674)
	Motorola	SN74LS242	
	TI	SN74LS242	
◆ HD74LS243	GoldStar	GD74LS243	
	Lansdale	**SL74LS243**	(3674)
	Motorola	SN74LS243	
	National	DM74LS243	
	TI	SN74LS243	
◆ HD74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	(3674)
	Motorola	SN74LS244	
	National	DM74LS244	
		74LS244	
◆ HD74LS244	SGS-Thomson	T74LS244	
		74LS244	
◆ HD74LS244	TI	SN74LS244	
◆ HD74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	(3674)
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
◆ HD74LS245	Rochester	74LS245	
	SGS-Thomson	T74LS245	
		74LS245	
◆ HD74LS245	TI	SN74LS245	
◆ HD74LS247	Motorola	SN74LS247	
	National	74LS247	
	TI	SN74LS247	

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74LS248	Motorola	SN74LS248	
	National	74LS248	
	SGS-Thomson	T74LS248	
◆ HD74LS249	Motorola	MC74LS249	
	National	74LS249	
	SGS-Thomson	T74LS248B1	
◆ HD74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	(3674)
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
◆ HD74LS251	Rochester	74LS251	
	SGS-Thomson	T74LS251	
		74LS251	
◆ HD74LS251	TI	SN74LS251	
◆ HD74LS253	**Lansdale**	**SL74LS253**	(3674)
	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
◆ HD74LS253	Rochester	74LS253	
	SGS-Thomson	T74LS253	
		74LS253	
◆ HD74LS253	TI	SN74LS253	
◆ HD74LS257	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	(3674)
	Motorola	SN74LS257A	
		SN74LS257B	
◆ HD74LS257	National	DM74LS257B	
		74LS257	
◆ HD74LS257	Rochester	74LS257	
	SGS-Thomson	T74LS257A	
		74LS257	
◆ HD74LS257	TI	SN74LS257B	
◆ HD74LS258	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	(3674)
	Motorola	SN74LS258A	
		SN74LS258B	
◆ HD74LS258	National	DM74LS258B	
		74LS258	
◆ HD74LS258	Rochester	74LS258	
	SGS-Thomson	T74LS258A	
		74LS258	
◆ HD74LS258	TI	SN74LS258B	
◆ HD74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	(3674)
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
◆ HD74LS259	Rochester	74LS259	
	SGS-Thomson	T74LS259	
		74LS259	
◆ HD74LS259	TI	SN74LS259B	
◆ HD74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	(3674)
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
◆ HD74LS26	Rochester	74LS26	
	SGS-Thomson	T74LS26	
		T74LS26A	
		74LS26	
◆ HD74LS26	TI	SN74LS26	
◆ HD74LS266	**Lansdale**	**SL74LS266**	(3674)
	Motorola	SN74LS266	
	National	74LS266	
	SGS-Thomson	T74LS266	
		74LS266	
◆ HD74LS266	TI	SN74LS266	
◆ HD74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	(3674)
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
◆ HD74LS27	Rochester	74LS27	
	SGS-Thomson	T74LS27	
		74LS27	
◆ HD74LS27	TI	SN74LS27	
◆ HD74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	(3674)
	Motorola	SN74LS273	
	National	74LS273	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74LS273			(Cont'd)
	SGS-Thomson	T74LS273	
		74LS273	
◆ HD74LS273	TI	SN74LS273	
◆ HD74LS279	Motorola	SN74LS279	
	National	DM74LS279	
		74LS279	
◆ HD74LS279	Rochester	74LS279	
	SGS-Thomson	T74LS279	
		74LS279	
◆ HD74LS279	TI	SN74LS279A	
◆ HD74LS280	GoldStar	GD74LS280	
	Motorola	SN74LS280	
	SGS-Thomson	T74LS280	
		74LS280	
◆ HD74LS280	TI	SN74LS280	
◆ HD74LS283A	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	(3674)
	Motorola	SN74LS283	
	National	DM74LS283	
		74LS283	
◆ HD74LS283A	SGS-Thomson	T74LS283	
		74LS283	
◆ HD74LS283A	TI	SN74LS283	
◆ HD74LS290	Motorola	SN74LS290	
	National	DM74LS290	
		74LS290	
◆ HD74LS290	SGS-Thomson	T74LS290	
	TI	SN74LS290	
◆ HD74LS293	Motorola	SN74LS293	
	National	DM74LS293	
		74LS293	
◆ HD74LS293	SGS-Thomson	T74LS293	
		74LS293	
◆ HD74LS293	TI	SN74LS292	
		SN74LS293	
◆ HD74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	(3674)
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson	T74LS298	
		74LS298	
◆ HD74LS298	TI	SN74LS297	
		SN74LS298	
◆ HD74LS299	Motorola	SN74LS299	
	National	74LS299	
	TI	SN74LS299	
◆ HD74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	(3674)
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
◆ HD74LS30	Rochester	74LS30	
	SGS-Thomson	T74LS30	
		74LS30	
◆ HD74LS30	TI	SN74LS30	
◆ HD74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	(3674)
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
◆ HD74LS32	Rochester	74LS32	
	SGS-Thomson	T74LS32	
		74LS32	
◆ HD74LS32	TI	SN74LS31	
		SN74LS32	
◆ HD74LS365A	**Lansdale**	**SL74LS365A**	(3674)
	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
◆ HD74LS365A	Rochester	74LS365	
	SGS-Thomson	T74LS365A	
		74LS365A	
◆ HD74LS365A	TI	SN74LS365A	
◆ HD74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	(3674)
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
◆ HD74LS366A	SGS-Thomson	T74LS366A	
		74LS366A	
			(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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ufacturer ice	Replacement Source	Device	IC Master Page
D74LS366A	TI	SN74LS366A	
D74LS367A	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A	
		74LS367	
D74LS367A	Rochester	74LS367	
	SGS-Thomson		
		T74LS367A	
		74LS367A	
D74LS367A	TI	SN74LS367A	
D74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
D74LS368A	Rochester	74LS368	
	SGS-Thomson		
		T74LS368A	
		74LS368A	
D74LS368A	TI	SN74LS368A	
D74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37	
		74LS37	
D74LS37	Rochester	74LS37	
	SGS-Thomson		
		T74LS37	
		74LS37	
D74LS37	TI	SN74LS37	
D74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	Motorola	SN74LS373	
	National	DM74LS373	
		74LS373	
D74LS373	SGS-Thomson		
		T74LS373	
		74LS373	
D74LS373	TI	SN74LS373	
D74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	DM74LS374	
		74LS374	
D74LS374	SGS-Thomson		
		T74LS374	
		74LS374	
D74LS374	TI	SN74LS374	
D74LS375	**Lansdale**	**SL74LS375**	**(3674)**
	Motorola	SN74LS375	
	National	74LS375	
	TI	SN74LS375	
D74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	
D74LS38	Rochester	74LS38	
	SGS-Thomson		
		T74LS38	
		74LS38	
D74LS38	TI	SN74LS38	
D74LS386	Motorola	SN74LS386	
	National	74LS386	
	Rochester	74LS386	
	TI	SN74LS382A	
D74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson		
		T74LS390	
		74LS390	
D74LS390	TI	SN74LS390	
D74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	DM74LS393	
		74LS393	
D74LS393	SGS-Thomson		
		T74LS393	
		74LS393	
D74LS393	TI	SN74LS393	
D74LS40	Motorola	SN74LS40	
	National	74LS40	
	SGS-Thomson		
		T74LS40	
		74LS40	
D74LS40	TI	SN74LS40	
D74LS42	GoldStar	GD74LS42	
	Motorola	SN74LS42	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74LS42			(Cont'd)
	National	DM74LS42	
		74LS42	
◆ HD74LS42	Rochester	74LS42	
	SGS-Thomson		
		T74LS42	
		74LS42	
◆ HD74LS42	TI	SN74LS42	
◆ HD74LS47	Motorola	SN74LS47	
	National	74LS47	
	TI	SN74LS47	
◆ HD74LS48	Motorola	SN74LS48	
	National	DM74LS472A-45	
		74LS48	
◆ HD74LS490	**Lansdale**	**SL74LS490**	**(3674)**
	Motorola	SN74LS490	
	National	74LS490	
	SGS-Thomson		
		T74LS490	
		74LS490	
◆ HD74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
◆ HD74LS51	Rochester	74LS51	
	SGS-Thomson		
		T74LS51	
		74LS51	
◆ HD74LS51	TI	SN74LS51	
◆ HD74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	Motorola	SN74LS54	
	National	74LS54	
	SGS-Thomson		
		T74LS54	
		74LS54	
◆ HD74LS54	TI	SN74LS54	
◆ HD74LS55	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson		
		T74LS541B1	
		T74LS55	
		74LS55	
◆ HD74LS55	TI	SN74LS55	
◆ HD74LS641	**Lansdale**	**SL74LS641**	**(3674)**
		SL74LS641-1	**(3674)**
◆ HD74LS641	Motorola	SN74LS641	
	TI	SN74LS641	
		SN74LS641-1	
◆ HD74LS642	**Lansdale**	**SL74LS642**	**(3674)**
		SL74LS642-1	**(3674)**
◆ HD74LS642	Motorola	SN74LS642	
	TI	SN74LS642	
		SN74LS642-1	
◆ HD74LS645	**Lansdale**	**SL74LS645**	**(3674)**
		SL74LS645-1	**(3674)**
◆ HD74LS645	Motorola	SN74LS645	
	SGS-Thomson		
		T74LS645	
	TI	SN74LS645	
		SN74LS645-1	
◆ HD74LS669	Motorola	SN74LS669	
	TI	SN74LS652	
		SN74LS669	
◆ HD74LS73A	GoldStar	GD74LS73A	
	Lansdale	**SL74LS73**	**(3674)**
	Motorola	SN74LS73A	
	National	DM74LS73A	
	TI	SN74LS73A	
◆ HD74LS74A	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74	
		74LS74	
◆ HD74LS74A	Rochester	74LS74	
	SGS-Thomson		
		T74LS74A	
		74LS74	
◆ HD74LS74A	TI	SN74LS74A	
◆ HD74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748	
		SN74LS75	
◆ HD74LS75	National	DM74LS75	
	Rochester	74LS75	
	SGS-Thomson		
		T74LS75	
	TI	SN74LS75	

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Manufacturer Device	Replacement Source	Device	IC Master Page
◆ HD74LS76A	**Lansdale**	**SL74LS76**	**(3674)**
	Motorola	SN74LS76A	
	SGS-Thomson		
		T74LS75B1	
	TI	SN74LS76A	
◆ HD74LS77	Motorola	SN74LS77	
◆ HD74LS78A	TI	SN74LS78A	
◆ HD74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A	
		74LS83	
◆ HD74LS83A	Rochester	74LS83	
	SGS-Thomson		
		T74LS83A	
		74LS83A	
◆ HD74LS83A	TI	SN74LS83A	
◆ HD74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
◆ HD74LS85	National	DM74LS85	
		74LS85	
◆ HD74LS85	Rochester	74LS85	
	TI	SN74LS85	
◆ HD74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
◆ HD74LS86	Rochester	74LS86	
	SGS-Thomson		
		T74LS86	
		74LS86	
◆ HD74LS86	TI	SN74LS86A	
◆ HD74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson		
		T74LS90	
		74LS90	
◆ HD74LS90	TI	SN74LS90	
◆ HD74LS91	SGS-Thomson		
		T74LS90B1	
		T74LS91	
◆ HD74LS91	TI	SN74LS91	
◆ HD74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	SGS-Thomson		
		T74LS92	
	TI	SN74LS92	
◆ HD74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson		
		T74LS93	
		74LS93	
◆ HD74LS93	TI	SN74LS93	
◆ HD74LS95B	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson		
		T74LS93B1	
		T74LS95B	
		74LS95B	
◆ HD74LS95B	TI	SN74LS95B	
HL6711	NEC	NDL3200	
	Toshiba	TOLD9200	
HL6712	NEC	NDL3210	
	Toshiba	TOLD9211	
HMS14161	MicronSemi	MT4C16270	
HM100422	Cypress	CY100E422	
HM100470	NEC	µPB100474	
HM100474	Cypress	CY100E474	
	NEC	µPB100474	
HM100490	IDT	IDT100490	
HM100494	Cypress	CY101E494	
	IDT	IDT100494	
HM100504	IDT	IDT100504	
	NEC	µPD100504	
HM101490	IDT	IDT101490	
HM101494	Cypress	CY101E494	
HM10150	Silicon Conn	SC5200	
HM101500	Silicon Conn	SC5100	
HM101504	IDT	IDT101504	
	Silicon Conn	SC5104	
HM101514	Silicon Conn	SC5204	
HM10194	IDT	IDT101494	

Manufacturer Device	Replacement Source	Device	IC Master Page
HM10422	Cypress	CY10E422	
HM10474	Cypress	CY10E474	
		CY100E474	
	NEC	µPB10474	
HM10490	IDT	IDT10490	
HM10494	Cypress	CY10E494	
	IDT	IDT10494	
HM10504	IDT	IDT10504	
	NEC	µPD10504	
HM2256	Sony	CXK58257	
HM25089	Cypress	CY7C282	
HM27C256	Cypress	CY7C274	
HM27256	Cypress	CY7C274	
HM27512	Cypress	CY7C286	
HM4315	Harris	HM6504	
HM4334	AMD	AM91L14	
	Harris	HM6514	
HM4716	Krueger	4116-120	
		4116-150	
		4116-200	
HM472114	**Krueger**	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
HM4816	Krueger	4116S	
HM48416	Krueger	41416-100	
		41416-120	
		41416-150	
HM4847	Cypress	CY2147	
	Performance	P4C147	
HM4864	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
HM4864A	OKI	MSM3764A	
HM50256	GoldStar	GM71256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	NEC	µPD41256	
	OKI	MSM41256A	
	Panasonic	MN41256	
HM50257	OKI	MSM41257A	
	Panasonic	MN41257	
HM50464	GoldStar	GM71C464	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mosel-Vitelic	V53C464	
	NEC	µPD41464	
	Panasonic	MN41464	
	Samsung	KM41C464	
HM50464P	OKI	MSM41464	
HM51V6400	MicronSemi	MT4LC4M4	
HM511000	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Motorola	MCM511000	
		MCM511000A	
	NEC	µPD421000	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	TI	TMS4C1024	
	Toshiba	TC511000	
HM511000A	GoldStar	GM71C1000	
	Hyundai	HY531000	
	Toshiba	TC511000B	
HM511000AL	GoldStar	GM71C1000L	
HM511000B	OKI	MSM511000B	
HM511001	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511001	
		MCM511001A	
	NEC	µPD421001	
	Samsung	KM41C1001	
	TI	TMS4C1025	
	Toshiba	TC511001	
HM511001A	OKI	MSM511001B	
	Toshiba	TC511001B	
HM511002	MicronSemi	MT4C1026	
	Motorola	MCM511002	
		MCM511002A	
	NEC	µPD421002	
	Panasonic	MN41C1002	
	Samsung	KM41C1002	
	TI	TMS4C1027	
HM511002A	OKI	MSM511002B	
	Toshiba	TC511002	
HM511610	TI	TMS416100	
HM5116100	MicronSemi	MT4C16MX1	
	Toshibá	TC5116100	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
HM5116101	Toshiba	TC5116101	
HM5116102	Toshiba	TC5116102	
HM511640	TI	TMS416400	
HM5116400	MicronSemi	MT4C4M4X1	
	Toshiba	TC5116400	
HM5116402	Toshiba	TC5116402	
HM5116410	Toshiba	TC5116410	
HM5117400	Toshiba	TC5117400	
HM5117402	Toshiba	TC5117402	
HM5117410	Toshiba	TC5117410	
HM51256	GoldStar	GM71C256	
		GM71C256A	
	Mosel-Vitelic	V53C256	
	Samsung	KM41C256	
HM51258	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C258	
	Samsung	KM41C258	
HM514100	MicronSemi	MT4C1004	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
		MCM54100A	
	NEC	µPD424100	
	Samsung	KM41C4000	
	Siemens	HYB514100	
	TI	TMS44100	
	Toshiba	TC514100	
		TC514101	
HM514100A	Hyundai	HY514100	
HM514100AL	GoldStar	GM71C4100AL	
HM514100ASL	GoldStar	GM71C100ASL	
HM5141000A	GoldStar	GM71C4100A	
HM514101	Motorola	MCM54101	
		MCM54101A	
	Samsung	KM41C4001	
HM514102	Samsung	KM41C4002	
	Toshiba	TC514102	
HM514160	MicronSemi	MT4C16257	
HM514170	MicronSemi	MT4C16260	
	Toshiba	TC514170B	
HM514256	GoldStar	GM71C4256	
		GM71C7256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	Motorola	MCM514256	
		MCM514256A	
	NEC	µPD424256	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
HM514256A	GoldStar	GM71C4256A	
	Hyundai	HY534256	
	OKI	MSM514256B	
		MSM514266B	
	Toshiba	TC514256B	
HM514256AL	GoldStar	GM71C4256AL	
HM514258	MicronSemi	MT4C4258	
	Motorola	MCM514258	
		MCM514258A	
	OKI	MSM514258	
	Panasonic	MN41C4258	
	Samsung	KM44C258	
	TI	TMS44C256	
	Toshiba	TC514258	
HM514258A	Toshiba	TC514258B	
HM514260	GoldStar	GM71C4260	
	MicronSemi	MT4C16256	
		MT4C16257	
	Toshiba	TC514260B	
HM514260L	GoldStar	GM71C4260L	
HM514266	Toshiba	TC514266	
HM514266A	Toshiba	TC514266B	
HM514270	MicronSemi	MT4C16256	
HM514400	MicronSemi	MT4C4001	
	Mosel-Vitelic	V53C404	
	Motorola	MCM514400	
		MCM54400	
		MCM54400A	
	NEC	µPD424400	
	Samsung	KM44C1000	
	Siemens	HYB514400	
			(Continued)
HM514400			(Cont'd)
	TI	TMS44400	
		TMS44410	
	Toshiba	TC514400	
HM514400A	GoldStar	GM71C4400A	
	Hyundai	HY514400	
HM514400ASL	GoldStar	GM71C4400ASL	
HM514402	Samsung	KM44C1002	
	Toshiba	TC514402	
HM514410	Motorola	MCM54410	
	NEC	µPD424410	
	Toshiba	TC514410	
HM51464	GoldStar	GM71C464A	
HM514800	GoldStar	GM71C4800	
	MicronSemi	MT4C8512	
HM514800L	GoldStar	GM71C4800L	
HM53235	Mosel-Vitelic	V52C4256	
HM53251	Mosel-Vitelic	V52C4258	
HM534251	MicronSemi	MT42C4256	
	NEC	µPD42273	
	TI	TMS44C250	
		TMS44C251	
HM534252	Samsung	KM424C257	
	TI	TMS44C250	
		TMS44C251	
HM534253	MicronSemi	MT42C4256	
	NEC	µPD42274	
	Samsung	KM424C257	
	TI	TMS44C250	
		TMS44C251	
HM53461	GoldStar	GM53C261	
		GM53C461	
	Krueger	4461-100	
		4461-120	
		4461-150	
	Mosel-Vitelic	V53C261	
	Panasonic	MN47464	
	Samsung	KM424C64	
HM538121	MicronSemi	MT42C8128	
	Mosel-Vitelic	V52C8126	
	Samsung	KM428C128	
	TI	TMS48C121	
HM538122	Samsung	KM428C128	
	TI	TMS48C121	
HM538123	MicronSemi	MT42C8128	
	Mosel-Vitelic	V52C8128	
	Samsung	KM428C128	
	TI	TMS48C121	
HM538253	MicronSemi	MT42C8257	
HM56D232	MicronSemi	MT16D232	
HM561003	OKI	MSC2304	
HM6116	AMD	AM9122	
	AT&T	ATT7C116	
	Cypress	CY6116	
	GoldStar	GM76C28	
	Harris	HM65162	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	Mosel-Vitelic	MS6516	
	Panasonic	MN4416	
	Performance	P4C116	
	UMC	UM6116	
HM6116A	Cypress	CY6116A	
	Hyundai	HY6116A	
	Sharp	LH5116	
HM61256	Catalyst Semi	CAT71C256	
	LogicDev	L7C199	
HM6147	Cypress	CY7C147	
	Harris	HM6504	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	Performance	P4C147	
HM6148	AMD	AM2148	
	Cypress	CY21L48	
		CY7C148	
	Harris	HM6514	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
	SGS-Thomson	IMS1223	
	UMC	UM2148	
HM6167	Cypress	CY7C167	
		CY7C167A	
	Harris	HM65262	
	Krueger	2167-35	
			(Continued)
HM6167	Krueger		(Cont'd)
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	SGS-Thomson	IMS1403	
	UMC	UM6167	
HM6168	AMD	AM2168	
	Cypress	CY7C168	
		CY7C168A	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	Performance	P4C148	
		P4C168	
	SGS-Thomson	IMS1423	
	UMC	UM6168	
HM62A168	AT&T	ATT7C183	
	Cypress	CY7C183	
	Samsung	KM78C80	
	Toshiba	TC55188	
HM62A188	Toshiba	TC55187	
HM6207	AT&T	ATT7C197	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Paradigm	PDM41257	
	Samsung	KM61257	
HM6208	AT&T	ATT7C194	
	IDT	IDT71258	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mosel-Vitelic	MS62252	
		MS62252A	
	Paradigm	PDM41258	
	Samsung	KM64257	
	Sharp	LH52252	
	Toshiba	TC55464	
HM6209	IDT	IDT61298	
	Toshiba	TC55465	
HM621100	AT&T	ATT7C107	
	MicronSemi	MT5C1001	
	Motorola	MCM6227	
HM621100A	Motorola	MCM6227A	
HM6216	Mosel-Vitelic	MS6516	
HM62168	MicronSemi	MT56C0816	
HM62188	MicronSemi	MT56C0818	
HM62256	Catalyst Semi	CAT71C256	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Hyundai	HY62256A	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mosel-Vitelic	MS62256	
		MS62257	
	NEC	µPD43256	
	OKI	MSM51257	
	Panasonic	MN44256	
	Samsung	KM62256	
	Sharp	LH52250AL	
	Toshiba	TC55257	
	UMC	UM62256	
HM62256AL	GoldStar	GM76C256LL	
HM62256L	GoldStar	GM76C256L	
HM624256	AT&T	ATT7C106	
	Cypress	CY7C106	
	MicronSemi	MT5C1005	
	Mosel-Vitelic	MS621002	
	Motorola	MCM6227	
	NEC	µPD431004	
	Samsung	KM641001	
	Sharp	LH521002	
HM624256A	Motorola	MCM6229A	
HM624257	Cypress	CY7C102	
	Samsung	KM641005	
HM6264	AT&T	ATT7C185	
	Cypress	CY7C186	
	GoldStar	GM76C88	
	Harris	HM65642	
	Hyundai	HY6264A	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
			(Continued)
HM6264			(Cont'd)
	LogicDev	L7C185	
	Mosel-Vitelic	MS6264	
		MS6265	
	OKI	MSM5165	
	Panasonic	MN4464	
	Performance	P4C164	
	Samsung	KM6264	
	SGS-Thomson	MK48H64	
	Sony	CXK5864	
	Toshiba	TC5563	
	UMC	UM6264	
HM6264A	Sharp	LH5168	
HM6264AL	GoldStar	GM76C88L	
HM6264L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
HM6267	AMD	AM2167	
	AT&T	ATT7C167	
	Cypress	CY7C167	
		CY7C167A	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	SGS-Thomson	IMS1403	
	Sharp	LH5167	
	Toshiba	TC5561	
		TC5562	
HM6268	AT&T	ATT7C168	
	Cypress	CY7C168	
		CY7C168A	
	IDT	IDT6168	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Motorola	MCM6268	
	Performance	P4C168	
	UMC	UM6168	
HM628127	Fujitsu	MB82008	
HM628128	AT&T	ATT7C109	
	Fujitsu	MB82008	
	Hyundai	HY628100	
	MicronSemi	MT5C1008	
	Mosel-Vitelic	MS621008	
	NEC	µPD431000	
	OKI	MSM521001	
	Sony	CXK581000	
		CXK581001	
	Toshiba	TC551001	
	UMC	UM621024	
HM628128L	GoldStar	GM76C8128L	
HM62832	AT&T	ATT7C199	
	IDT	IDT71256	
	Krueger	62256-025	
		62256-030	
		62256-035	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256	
	Motorola	MCM6206	
	Samsung	KM68257	
	Sharp	LH52258	
	Toshiba	TC55328	
HM6287	AT&T	ATT7C187	
	Cypress	CY7C187	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Performance	P4C187	
	Toshiba	TC5561	
♦ HM6287	Rochester	61CD64	
HM6288	AT&T	ATT7C164	
	Cypress	CY7C164	
	IDT	IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	OKI	MSM5188	
	Performance	P4C188	
			(Continued)

♦ Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page
HM6288			(Cont'd)
	Samsung	KM6465	
	Toshiba	TC55416	
HM6289	IDT	IDT6198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	Samsung	KM6466	
	Toshiba	TC55417	
HM62927	Fujitsu	MB82009	
HM64456	LogicDev	L7C199	
HM65256	Krueger	65256-100	
		65256-120	
	Toshiba	TC51832	
HM658128	NEC	µPD431000	
	Samsung	KM658128	
	Toshiba	TC518129	
HM66204	Peps	S128KX8	
HM6707	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Mosel-Vitelic	MS62251	
	Motorola	MCM6207	
	Paradigm	PDM41257	
HM6707A	Motorola	MCM6207	
HM6708	IDT	IDT61B298	
		IDT71B258	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Motorola	MCM6208	
		MCM6708A	
	Paradigm	PDM41258	
	Quality Semi	QS86440	
	Sharp	LH52252	
	Toshiba	TC55464	
M6708A	Cypress	CY7C194	
	Motorola	MCM6208	
	Toshiba	TC55B464	
M6709	Cypress	CY7C195	
	MicronSemi	MT5C2565	
	Mosel-Vitelic	MS62253A	
	Motorola	MCM6709A	
	Quality Semi	QS86446	
	Samsung	KM64B258	
		KM64258	
	Sharp	LH52253	
	Toshiba	TC55465	
M6709A	Cypress	CY7B195	
		CY7C195	
	Toshiba	TC55B465	
M6716	LogicDev	L6116	
	MicronSemi	MT5C1608	
	Performance	P4C116	
M6716	Rochester	68CE16	
M67832	Motorola	MCM6206	
		MCM6706A	
M6787	Cypress	CY7C187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	LogicDev	L7C187	
	Motorola	MCM6206	
		MCM6287	
	Toshiba	TC5562	
M6788	Cypress	CY7B164	
		CY7C164	
	IDT	IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	Motorola	MCM6288	
	Performance	P4C188	
	Quality Semi	QS8888	
	Samsung	KM64B65	
	Toshiba	TC55416	
M6788A	Motorola	MCM6288	
M6789	AT&T	ATT7C166	
	Cypress	CY7B166	
	IDT	IDT6198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mosel-Vitelic	MS6267A	
	Motorola	MCM6290	
	Quality Semi	QS8886	
		QS8886A	
			(Continued)
HM6789			(Cont'd)
	Samsung	KM64B66	
	Toshiba	TC55B417	
		TC55417	
HM68000	Krueger	68000	
HM77832	Quality Semi	QS83280	
♦ HN25085	Lansdale	HL7685	
♦ HN25089	Lansdale	HL7681	
HN25169	Cypress	CY7C292	
	Waferscale	WS57C191	
		WS57C291	
♦ HN25169	Lansdale	HL76161	
HN2532	**Krueger**	**2532-350**	**(3663)**
HN27C010	Krueger	27C010	
HN27C1000	Catalyst Semi	CAT27010	
HN27C101	AMD	AM27C010	
	OKI	MSM271000	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC541000	
		TC571000	
	Waferscale	WS27C010	
HN27C102	Catalyst Semi	CAT27C210	
HN27C1024	AMD	AM27C1024	
	Krueger	27C210	
	OKI	MSM27C1024	
		MSM271024	
	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC54H1024	
		TC57H1024	
		TC571024	
HN27C128	Krueger	27C128-200	
		27C128-250	
	Waferscale	WS27C128	
HN27C256	AMD	AM27C256	
	Catalyst Semi	CAT27HC256	
	Cypress	CY7C274	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	OKI	MSM27C256	
	SEEQ	27C256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
		TC57256	
	Waferscale	WS27C256	
HN27C301	AMD`	AM27C100	
	Krueger	27C010	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC541001	
		TC571001	
	Waferscale	WS27C010	
HN27C4096	AMD	AM27C4096	
	TI	TMS27C240	
		TMS27PC240	
HN27C512	Krueger	27C512-150	
		27C512-200	
		27C512-250	
HN27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
HN27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	SEEQ	27128	
HN27128A	TI	TMS27C128	
		TMS27PC128	
HN27256	**Krueger**	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	OKI	MSM27256	
	TI	TMS27C256	
		TMS27PC256	
HN27512	Catalyst Semi	CAT27512	
	Krueger	**27512-200**	**(3663)**
		27512-250	**(3663)**
	OKI	MSM27512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Waferscale	WS27C512	
HN28F101	Intel	28F010	
HN29C101	OKI	MSM28F101	
	TI	TMS29F010	
HN462532	**Krueger**	**2532-450**	**(3663)**
			(Continued)
HN462716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
HN4827128	OKI	MSM27128	
HN4827128G	TI	TMS27C128	
		TMS27PC128	
HN482732A	**Krueger**	**2732A-250**	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
HN482764	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	OKI	MSM2764	
HN58C256	NEC	µPD28C256	
HN58C65	EXEL	XL2865	
	Fujitsu	MBM28C65	
	NEC	µPD28C64	
	OKI	MSM28C64	
HN58C66	NEC	µPD28C64	
HN58064	Catalyst Semi	CAT28C64	
	EXEL	XL2864	
	Fujitsu	MBM28C64	
	NEC	µPD28C64	
HN613128	Panasonic	MN23128	
HN613256	Panasonic	MN23257	
HN61364	Hughes	H23C64	
		H23C65	
	Panasonic	MN2364	
HN61365	Hughes	H23C64	
		H23C65	
HN6207	Cypress	CY7C197	
HN6208	Cypress	CY7C194	
HN621601	Toshiba	TC5316200	
HN62256	Cypress	CY7C198	
HN623X4	GoldStar	GM23C4000	
HN62301	GoldStar	GM231000	
	Panasonic	MN231001	
HN62302B	OKI	MSM532001A	
HN62304	Panasonic	MN234001	
	Sharp	LH534	
	UMC	UM23C4001	
HN62304B	OKI	MSM534001A	
HN62308	Sharp	LH5381	
HN62321	OKI	MSM531000A	
	Samsung	KM23C1000	
	Toshiba	TC531001	
	UMC	UM23C1024	
		UM23C1025	
HN62321 A	OKI	MSM531001A	
HN62324B	OKI	MSM538001B	
HN623257	OKI	MSM53256	
	UMC	UM23C256	
HN62331	Samsung	KM23C1000	
	Toshiba	TC531001	
HN624X4	GoldStar	GM23C4100	
HN62401	Samsung	KM23C16000	
	Sharp	LH5375	
HN62404	OKI	MSM534002A	
	Panasonic	MN234000	
	Samsung	KM23C4100	
	Toshiba	TC534200	
	UMC	UM23C4000	
HN62408	OKI	MSM538002B	
	Samsung	KM23C8100	
	Sharp	LH5380	
HN62412	Samsung	KM23C2100	
	UMC	UM23C2000	
HN62422	Samsung	KM23C2100	
HN62424	Samsung	KM23C4100	
HN62801	Toshiba	TC538200	
HN62832	Cypress	CY7C199	
HN6707	Cypress	CY7C197	
HN6708	Cypress	CY7C194	
HN6716	Cypress	CY7C128	
♦ HS74LS640	GoldStar	GD74LS640	
		GD74LS640-1	
♦ HS74LS640	**Lansdale**	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
♦ HS74LS640	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
LM111	National	LM111	
S6561	Samsung	KS5164	
TC514400AL	GoldStar	GM71C4400AL	
100422	Krueger	100422	
100474	Krueger	100474	
10422	Krueger	10422	
10474	Krueger	10474	
146818	**Krueger**	**146818**	**(3663)**
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4334	Krueger	21C14-150	
		21C14-200	
		21C14-450	

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HI7555	Exar	XRL555	
	Harris	ICM7555	
	Maxim	ICM7555	
HI8010	IC Sensors	ICS1501	
		ICS1502	
	Micrel	MIC8010	
		MIC8011	
HI8011	American Micro	S4521	
HI8020	American Micro	S4521	
	IC Sensors	ICS1503	
	Micrel	MIC0013	
		MIC8014	
HI8282	Harris	HS3282	
HI8382	Harris	HS3182	
	Raytheon	RM3182	
HI8482	Raytheon	RM3183	
HI8575	Raytheon	TL14575	

Honeywell

Manufacturer Device	Replacement Source	Device	IC Master Page
HADC574	Maxim	MX574	
HCMP96850	Maxim	MAX9685	
HCMP96870	Maxim	MAX9687	
HDAC10180	GEC Plessey	SP97618	
HDAC10181	GEC Plessey	SP97618	
HDAC34010	GEC Plessey	ZN454	
HDAC34020	GEC Plessey	ZN454	
HDAC51400	GEC Plessey	SP98608	
HDAC7541	Maxim	MX7541	
HDAC7542	Maxim	MX7542	
HDAC7543	Maxim	MX7543	
HDAC7545	Maxim	MX7545	
HDAC77100	GEC Plessey	SP97508	
HDAC77200	GEC Plessey	SP97508	
HDA97000	GEC Plessey	SP97618	

Hughes

Manufacturer Device	Replacement Source	Device	IC Master Page
HB3248	EXEL	XL2816	
HC3104	EXEL	XL2804	
HC3248	EXEL	XL2816	
HI3248	EXEL	XL2816	
HLCD7211	TeledyneC	TC7211	
H0438	American Micro	S4521	
	National	MM58438	
H1802	Harris	CDP1802	
H1822	American Micro	S5101	
	Harris	CDP1822	
		HM435101	
		IM6551	
	Motorola	MC5101	
	National	F47218	
		MM2101	
		MM74C920	
	OKI	MSM573	
	Philips	2101	
	TI	2101	
	Toshiba	TC5501	
H1823	Motorola	MC6810	
	National	6551	
		6552	
H1824	Harris	CDP1824	
H1831	Harris	CDP1831	
		CDP1832	
	Intel	2704	
	National	5204	
		5232	
		5233	
		87LS9	
	OKI	MSM575	
	SGS-Thomson	MK2500	
		MK2600	
	TI	SN74S474	
		SN74S475	
H1832	Harris	CDP1831	
		CDP1832	
	Intel	2704	
	National	5204	
		5232	
		5233	
		87LS9	
			(Continued)

scontinued

The manufacturers report their devices can be used as direct replacements.
`Performance details often differ, so compare the specifications considering your requirements.

Hughes (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
H1832			(Cont'd)
	OKI	MSM575	
	SGS-Thomson	MK2500	
		MK2600	
	TI	SN74S474	
		SN74S475	
H1833	Harris	CDP1833	
		CDP1834	
	Intel	8708	
	Motorola	MCM65308	
H1834	Harris	CDP1833	
		CDP1834	
	Intel	8708	
	Motorola	MCM65308	
H1837	Harris	CDP1837	
H1852	Harris	CDP1852	
	Intel	8212	
	SGS-Thomson	MK386	
H1853	Harris	CDP1853	
H1856	Harris	CDP1856	
H1857	Harris	CDP1857	
H1858	Harris	CDP1858	
H1859	Harris	CDP1859	
H23C16	Harris	IM6316	
	Intel	2316	
		2716	
	OKI	MSM5316	
	Supertex	CM1600	
H23C64	American Micro	S2364	
		S4264	
	Harris	CDM5364	
		CDM5365	
	Hitachi	HN61364	
		HN61365	
	National	F3564	
		F3568	
		MM52164	
	OKI	MSM2965	
		MSM3864	
	SGS-Thomson	MK36000	
		MK37000	
	Supertex	23SC64	
		23SC65	
	TI	TMS4764	
	Toshiba	TC5364	
		TC5365	
H23C65	American Micro	S2364	
		S4264	
	Harris	CDM5364	
		CDM5365	
	Hitachi	HN61364	
		HN61365	
	National	F3564	
		F3568	
		MM52164	
	OKI	MSM2965	
		MSM3864	
	SGS-Thomson	MK36000	
		MK37000	
	Supertex	23SC64	
		23SC65	
	TI	TMS4764	
	Toshiba	TC5364	
		TC5365	
H7211	Datel	DD7211	
	Harris	7211	
	Siliconix	DF412	

Hyundai

Manufacturer Device	Replacement Source	Device	IC Master Page
HY27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
HY2764	SEEQ	2764	
HY51C1000	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mosel-Vitelic	V53C100	
		V53C100B	
	TI	TMS4C1024	
HY51C1001	TI	TMS4C1025	
HY51C1003	MicronSemi	MT4C1026	
HY51C256	Krueger	41256-080	
	Krueger	**41256-100**	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
HY51C4256	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	TI	TMS44C256	
HY51C4258	MicronSemi	MT4C4258	
HY51C464	**Krueger**	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
HY511610	Fujitsu	MB8116100	
	Samsung	KM41C16100	
HY511640	Fujitsu	MB8116400	
	Samsung	KM41C16100	
HY514100	Fujitsu	MB814100A	
	GoldStar	GM71C4100A	
	Hitachi	HM514100A	
	MicronSemi	MT4C1004	
	Mitsubishi	M5M44100	
	Motorola	MCM514100	
	NEC	µPD424100	
	NMB	AAA4M200	
	OKI	MSM514100	
	Panasonic	MN4241000A	
	Samsung	KM41C4000A	
	Siemens	HYB514100	
	TI	TMS44100	
	Toshiba	TC514100A	
	Vitelic	V53C400	
HY514400	Fujitsu	MB814400A	
	GoldStar	GM71C4400A	
	Hitachi	HM514400A	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M44400	
	Motorola	MCM514400	
	NEC	µPD424400	
	OKI	MSM514400	
	Panasonic	MN41C41000	
	Samsung	KM44C1000A	
	Siemens	HYB514400	
	TI	TMS44400	
	Toshiba	TC514400A	
	Vitelic	V53C404	
HY51464	**Krueger**	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
HY5164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
HY52C4800	MicronSemi	MT4C8512	
HY53C256	Fujitsu	MB81256	
	GoldStar	GM71C256	
	Hitachi	HM50256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	MicronSemi	MT1259	
	Mitsubishi	M5M4256A	
	Motorola	MCM6256	
	NEC	µPD41256	
	NMB	AAA2800	
	OKI	MSM41256	
	Panasonic	MN41256A	
	Samsung	KM41C256	
	Siemens	HYB41256	
	TI	TMS4256	
	Toshiba	TMM41256	
	Vitelic	V53C256	
HY53C464	Fujitsu	MB81464	
	GoldStar	GM71C464	
	Hitachi	HM50464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	MicronSemi	MT4067	
	Mitsubishi	M5M4464	
	Motorola	MCM4146A	
	NEC	µPD41464	
	NMB	AAA2804	
	OKI	MSM41464	
	Panasonic	MN41464A	
	Samsung	KM41C464	
	Siemens	HYB41C464	
	TI	TMS4464	
	Toshiba	TMM41464A	
	Vitelic	V53C464	
HY531000	Fujitsu	MB81C1000	
	GoldStar	GM71C1000	
	Hitachi	HM511000A	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C10003	
	Motorola	MCM511000A	
	NEC	µPD421000	
	NMB	AAA1M300	
	OKI	MSM511000	
	Panasonic	MN41C1000A	
	Samsung	KM41C1000B	
	Siemens	HYB511000A	
	TI	TMS4C1024	
	Toshiba	TC511000B	
	Vitelic	V53C100	
HY534256	Fujitsu	MB81C4256A	
	GoldStar	GM71C4256A	
	Hitachi	HM514256A	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44256B	
	Motorola	MCM514256A	
	NEC	µPD424256	
	NMB	AAA1M304	
	OKI	MSM51C4256	
	Panasonic	MN41C4256A	
	Samsung	KM44C256B	
	Siemens	HYB514256A	
	TI	TMS44C256	
	Toshiba	TC514256B	
	Vitelic	V53C104	
HY61C16	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
HY61C67	SGS-Thomson	MK41H67	
HY61C68	SGS-Thomson	MK41H68	
HY6116	Mosel-Vitelic	MS6516	
	SGS-Thomson	MK6116	
	Sharp	LH5116	
HY6116A	Fujitsu	MB8416A	
	GoldStar	CG76C28	
	Hitachi	HM6116A	
	Mitsubishi	M5M6116	
	Mosel-Vitelic	MS6516S	
	NEC	µPD446	
	OKI	MSM5128	
	S-MOS	SRM2016	
	Samsung	KM6816	
	SGS-Thomson	MK6116	
	Sharp	LH5115	
	Sony	CXK5816	
	Toshiba	TC5516	
	UMC	UC6116	
HY62C256	LogicDev	L7C199	
	Mosel-Vitelic	MS62256	
	Sharp	LH52250AL	
	Toshiba	TC55257	
HY62C64	NEC	µPD28C64	
HY62C64P-70	Krueger	6264-070	
HY62C87	SGS-Thomson	IMS1600	
HY62C88	SGS-Thomson	IMS1620	
HY62256	SGS-Thomson	MK4832	
HY62256A	ATMEL	AT38256	
	Fujitsu	MB84256A	
	GoldStar	GM76C256	
	Hitachi	HM62256	
	Mitsubishi	M5M5256B	
	Mosel-Vitelic	MS62256B	
	NEC	µPD43256A	
	OKI	MSM51257B	
	S-MOS	SRM20256	
	Samsung	KM62256B	
	Sharp	LH52256	
HY6264	**Krueger**	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
		6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
	Mosel-Vitelic	MS6264	
	SGS-Thomson	MK48H64	
	Sharp	LH5168	
	Toshiba	TC5563	
HY6264A	ATMEL	AT3864	
	Fujitsu	MB8464A	
	GoldStar	GM76C88	
	Hitachi	HM6264	
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264C	
	NEC	µPD4464	
	OKI	MSM5165A	
	S-MOS	SRM2264	
	Samsung	KM6264B	
	SGS-Thomson	MK48H64	
	Sharp	LH6164D	
	Sony	CXK5864B	
	Toshiba	TC5565	
	UMC	UC6264B	
HY628100	Fujitsu	HM84100	
	GoldStar	GM231000	
	Hitachi	HM628128	
	Mitsubishi	M5M51008	
	Mosel-Vitelic	MS621000	
	NEC	µPD431000	
	OKI	MSM51008	
	S-MOS	SRM20100	
	Samsung	KM681000A	
	Sharp	LH511000	
	Sony	CXK581000	
	Toshiba	TC55001A	
	UMC	UC621024	
HY63C256	Catalyst Semi	CAT71C256	
	LogicDev	L7C199	
	Sharp	LH52258	
	Toshiba	TC55328	
HY93C46	**Catalyst Semi**	**CAT93C46**	**(3565)**
	EXEL	XL93C46	
		XL93LC46	
	OKI	MSM16811	

IBM

Manufacturer Device	Replacement Source	Device	IC Master Page
PPC601FA50-1	Motorola	MPC601FA50-1	
PPC601FA66-1	Motorola	MPC601FA66-1	
34F2933	Peps	PEP1MX36	
6450603	Peps	PEP25636	
6450604	Peps	PEP51236	

IC Sensors

Manufacturer Device	Replacement Source	Device	IC Master Page
ICS1501	Holt	HI8010	
ICS1502	Holt	HI8010	
ICS1503	Holt	HI8020	
ICS2994	IntCirSys	AV9194	
ICS90C64	IntCirSys	AV90C64	

Ideal Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
ISI73046	Harris	3046	
ISI73054	Harris	3054	
ISI74000B	Harris	CD4000B	
ISI74001B	Harris	CD4001B	
ISI74002B	Harris	CD4002B	
ISI74007UB	Harris	CD4007UB	
ISI74008B	Harris	CD4008B	
ISI74011B	Harris	CD4011B	
ISI74012B	Harris	CD4012B	
ISI74013B	Harris	CD4013B	
ISI74016B	Harris	CD4016B	
ISI74017B	Harris	CD4017B	
ISI74018B	Harris	CD4018B	
ISI74019B	Harris	CD4019B	
ISI74020B	Harris	CD4020B	
ISI74023B	Harris	CD4023B	
ISI74025B	Harris	CD4025B	
ISI74027B	Harris	CD4027B	
ISI74028B	Harris	CD4028B	
ISI74029B	Harris	CD4029B	
ISI74030B	Harris	CD4030B	
ISI74035B	Harris	CD4035B	
ISI74040B	Harris	CD4040B	
ISI74042B	Harris	CD4042B	
ISI74046B	Harris	CD4046B	
ISI74047B	Harris	CD4047B	
ISI74049UB	Harris	CD4049UB	
ISI74050B	Harris	CD4050B	
ISI74051B	Harris	CD4051B	
ISI74052B	Harris	CD4052B	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Ideal Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ISI74053B	Harris	CD4053B	
ISI74059A	Harris	CD4059B	
ISI74060B	Harris	CD4060B	
ISI74066B	Harris	CD4066B	
ISI74069UB	Harris	CD4069UB	
ISI74071B	Harris	CD4071B	
ISI74072B	Harris	CD4072B	
ISI74073	Harris	CD4073B	
ISI74077B	Harris	CD4077B	
ISI74500A	Motorola	MC4500A	
ISI77201	Quality Semi	QS7201	
ISI77202	Quality Semi	QS7202	
ISI77203	Quality Semi	QS7203	
ISI77204	Quality Semi	QS7204	
ISI77211	Quality Semi	QS7211	
ISI77212	Quality Semi	QS77212	
ISI77223	Quality Semi	QS7223	
ISI77229	Quality Semi	QS77229	
ISI77306	Quality Semi	QS77306	
ISI77316	Quality Semi	QS77316	
ISI778L05	Motorola	MC78L05	
ISI778L08	Motorola	MC78L08	
ISI778L12	Motorola	MC78L12	
ISI778L15	Motorola	MC78L15	
ISI778L18	Motorola	MC78L18	
ISI778L24	Motorola	MC78L24	
ISI779L03	Motorola	MC79L03	
ISI779L05	Motorola	MC79L05	
ISI779L12	Motorola	MC79L12	
ISI779L15	Motorola	MC79L15	
ISI779L18	Motorola	MC79L18	
ISI779L24	Motorola	MC79L24	
ISI7812880	Quality Semi	QS812880	
ISI78255A	Intel	8255A	
ISI783280	Quality Semi	QS83280	
ISI783283	Quality Semi	QS83283	
ISI783285	Quality Semi	QS83285	
ISI783289	Quality Semi	QS83289	
ISI783290	Quality Semi	QS83290	
ISI783291	Quality Semi	QS83291	
ISI786440	Quality Semi	QS86440	
ISI786442	Quality Semi	QS86442	
ISI786444	Quality Semi	QS86444	
ISI786446	Quality Semi	QS86446	
ISI786447	Quality Semi	QS86447	
ISI786448	Quality Semi	QS86448	
ISI786449	Quality Semi	QS86449	
ISI78768	Quality Semi	8768	
ISI78769	Quality Semi	QS8769	
ISI78780	Quality Semi	QS8780	
ISI788160	Quality Semi	QS88160	
ISI788180	Quality Semi	QS88180	
ISI788181	Quality Semi	QS88181	
ISI788182	Quality Semi	QS88182	
ISI78881	Quality Semi	QS8881	
ISI78882	Quality Semi	QS8882	
ISI78883	Quality Semi	QS8883	
ISI78885	Quality Semi	QS8885	
ISI78886	Quality Semi	QS8886	
ISI78888	Quality Semi	QS8888	
54AHCT00	National	54AC899	
54AHCT01	**Ideal Semi**	**54AHCT02**	**(3644)**
54AHCT02	**Ideal Semi**	**54AHCT01**	**(3644)**
54AHCT03	**Ideal Semi**	**54AHCT04**	**(3644)**
54AHCT04	**Ideal Semi**	**54AHCT03**	**(3644)**
54AHCT05	**Ideal Semi**	**54AHCT08**	**(3644)**
54AHCT08	**Ideal Semi**	**54AHCT05**	**(3644)**
54AHCT09	**Ideal Semi**	**54AHCT10**	**(3644)**
54AHCT10	**Ideal Semi**	**54AHCT09**	**(3644)**
54AHCT107	**Ideal Semi**	**54AHCT109**	**(3644)**
54AHCT109	**Ideal Semi**	**54AHCT107**	**(3644)**
54AHCT11	**Ideal Semi**	**54AHCT112**	**(3644)**
54AHCT112	**Ideal Semi**	**54AHCT11**	**(3644)**
54AHCT12	**Ideal Semi**	**54AHCT121**	**(3644)**
54AHCT121	**Ideal Semi**	**54AHCT12**	**(3644)**
54AHCT123	**Ideal Semi**	**54AHCT138**	**(3644)**
54AHCT138	**Ideal Semi**	**54AHCT123**	**(3644)**
54AHCT139	**Ideal Semi**	**54AHCT14**	**(3644)**
54AHCT14	**Ideal Semi**	**54AHCT139**	**(3644)**
54AHCT148	**Ideal Semi**	**54AHCT155**	**(3644)**
54AHCT155	**Ideal Semi**	**54AHCT148**	**(3644)**
54AHCT157	**Ideal Semi**	**54AHCT158**	**(3644)**
54AHCT158	**Ideal Semi**	**54AHCT157**	**(3644)**
54AHCT161	**Ideal Semi**	**54AHCT163**	**(3644)**
54AHCT163	**Ideal Semi**	**54AHCT161**	**(3644)**
54AHCT164	**Ideal Semi**	**54AHCT165**	**(3644)**
54AHCT165	**Ideal Semi**	**54AHCT164**	**(3644)**
54AHCT166	**Ideal Semi**	**54AHCT173**	**(3644)**
54AHCT173	**Ideal Semi**	**54AHCT166**	**(3644)**
54AHCT174	**Ideal Semi**	**54AHCT175**	**(3644)**
54AHCT175	**Ideal Semi**	**54AHCT174**	**(3644)**

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Manufacturer Device	Replacement Source	Device	IC Master Page
54AHCT191	**Ideal Semi**	**54AHCT193**	**(3644)**
54AHCT193	**Ideal Semi**	**54AHCT191**	**(3644)**
54AHCT240	**Ideal Semi**	**54AHCT241**	**(3644)**
54AHCT241	**Ideal Semi**	**54AHCT240**	**(3644)**
54AHCT244	**Ideal Semi**	**54AHCT245**	**(3644)**
54AHCT245	**Ideal Semi**	**54AHCT244**	**(3644)**
54AHCT257	**Ideal Semi**	**54AHCT258**	**(3644)**
54AHCT258	**Ideal Semi**	**54AHCT257**	**(3644)**
54AHCT259	**Ideal Semi**	**54AHCT266**	**(3644)**
54AHCT266	**Ideal Semi**	**54AHCT259**	**(3644)**
54AHCT273	**Ideal Semi**	**54AHCT299**	**(3644)**
54AHCT299	**Ideal Semi**	**54AHCT273**	**(3644)**
54AHCT32	**Ideal Semi**	**54AHCT365**	**(3644)**
54AHCT365	**Ideal Semi**	**54AHCT32**	**(3644)**
54AHCT366	**Ideal Semi**	**54AHCT367**	**(3644)**
54AHCT367	**Ideal Semi**	**54AHCT366**	**(3644)**
54AHCT368	**Ideal Semi**	**54AHCT373**	**(3644)**
54AHCT373	**Ideal Semi**	**54AHCT368**	**(3644)**
54AHCT374	**Ideal Semi**	**54AHCT393**	**(3644)**
54AHCT393	**Ideal Semi**	**54AHCT374**	**(3644)**
54AHCT399	**Ideal Semi**	**54AHCT423**	**(3644)**
54AHCT423	**Ideal Semi**	**54AHCT399**	**(3644)**
54AHCT51	**Ideal Semi**	**54AHCT533**	**(3644)**
54AHCT533	**Ideal Semi**	**54AHCT51**	**(3644)**
54AHCT534	**Ideal Semi**	**54AHCT540**	**(3644)**
54AHCT540	**Ideal Semi**	**54AHCT534**	**(3644)**
54AHCT541	**Ideal Semi**	**54AHCT563**	**(3644)**
54AHCT563	**Ideal Semi**	**54AHCT541**	**(3644)**
54AHCT564	**Ideal Semi**	**54AHCT573**	**(3644)**
54AHCT573	**Ideal Semi**	**54AHCT564**	**(3644)**
54AHCT574	**Ideal Semi**	**54AHCT58**	**(3644)**
54AHCT58	**Ideal Semi**	**54AHCT574**	**(3644)**
54AHCT590	**Ideal Semi**	**54AHCT592**	**(3644)**
54AHCT592	**Ideal Semi**	**54AHCT590**	**(3644)**
54AHCT593	**Ideal Semi**	**54AHCT640**	**(3644)**
54AHCT640	**Ideal Semi**	**54AHCT593**	**(3644)**
54AHCT643	**Ideal Semi**	**54AHCT646**	**(3644)**
54AHCT646	**Ideal Semi**	**54AHCT643**	**(3644)**
54AHCT648	**Ideal Semi**	**54AHCT73**	**(3644)**
54AHCT73	**Ideal Semi**	**54AHCT648**	**(3644)**
54AHCT74	**Ideal Semi**	**54AHCT86**	**(3644)**
54AHCT86	**Ideal Semi**	**54AHCT74**	**(3644)**
54HCTLS00	National	54F978	
54HCTLS01	**Ideal Semi**	**54HCTLS02**	**(3643)**
54HCTLS02	**Ideal Semi**	**54HCTLS01**	**(3643)**
54HCTLS03	**Ideal Semi**	**54HCTLS04**	**(3643)**
54HCTLS04	**Ideal Semi**	**54HCTLS03**	**(3643)**
54HCTLS05	**Ideal Semi**	**54HCTLS08**	**(3643)**
54HCTLS08	**Ideal Semi**	**54HCTLS05**	**(3643)**
54HCTLS09	**Ideal Semi**	**54HCTLS10**	**(3643)**
54HCTLS10	**Ideal Semi**	**54HCTLS09**	**(3643)**
54HCTLS107A	**Ideal Semi**	**54HCTLS109**	**(3643)**
54HCTLS109	**Ideal Semi**	**54HCTLS107A**	**(3643)**
54HCTLS11	**Ideal Semi**	**54HCTLS112A**	**(3643)**
54HCTLS112A	**Ideal Semi**	**54HCTLS11**	**(3643)**
54HCTLS12	**Ideal Semi**	**54HCTLS121**	**(3643)**
54HCTLS121	**Ideal Semi**	**54HCTLS12**	**(3643)**
54HCTLS123	Ideal Semi	54HCTLS138	
54HCTLS138	**Ideal Semi**	**54HCTLS123**	**(3643)**
54HCTLS139	**Ideal Semi**	**54HCTLS14**	**(3643)**
54HCTLS14	**Ideal Semi**	**54HCTLS139**	**(3643)**
54HCTLS148	**Ideal Semi**	**54HCTLS155**	**(3643)**
54HCTLS155	**Ideal Semi**	**54HCTLS148**	**(3643)**
54HCTLS157	**Ideal Semi**	**54HCTLS158**	**(3643)**
54HCTLS158	**Ideal Semi**	**54HCTLS157**	**(3643)**
54HCTLS161A	**Ideal Semi**	**54HCTLS163A**	**(3643)**
54HCTLS163A	**Ideal Semi**	**54HCTLS161A**	**(3643)**
54HCTLS164	**Ideal Semi**	**54HCTLS165**	**(3643)**
54HCTLS165	**Ideal Semi**	**54HCTLS164**	**(3643)**
54HCTLS166	**Ideal Semi**	**54HCTLS173**	**(3643)**
54HCTLS173	**Ideal Semi**	**54HCTLS166**	**(3643)**
54HCTLS174	**Ideal Semi**	**54HCTLS175**	**(3643)**

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
54HCTLS175	**Ideal Semi**	**54HCTLS174**	**(3643)**
54HCTLS191	**Ideal Semi**	**54HCTLS193**	**(3643)**
54HCTLS193	**Ideal Semi**	**54HCTLS191**	**(3643)**
54HCTLS240	**Ideal Semi**	**54HCTLS241**	**(3643)**
54HCTLS241	**Ideal Semi**	**54HCTLS240**	**(3643)**
54HCTLS244	**Ideal Semi**	**54HCTLS245**	**(3643)**
54HCTLS245	**Ideal Semi**	**54HCTLS244**	**(3643)**
54HCTLS257	**Ideal Semi**	**54HCTLS258**	**(3643)**
54HCTLS258	**Ideal Semi**	**54HCTLS257**	**(3643)**
54HCTLS259	**Ideal Semi**	**54HCTLS266**	**(3643)**
54HCTLS266	**Ideal Semi**	**54HCTLS259**	**(3643)**
54HCTLS273	**Ideal Semi**	**54HCTLS299**	**(3643)**
54HCTLS299	**Ideal Semi**	**54HCTLS273**	**(3643)**
54HCTLS32	**Ideal Semi**	**54HCTLS365A**	**(3643)**
54HCTLS365A	**Ideal Semi**	**54HCTLS32**	**(3643)**
54HCTLS366A	**Ideal Semi**	**54HCTLS367A**	**(3643)**
54HCTLS367A	**Ideal Semi**	**54HCTLS366A**	**(3643)**
54HCTLS368A	**Ideal Semi**	**54HCTLS373**	**(3643)**
54HCTLS373	**Ideal Semi**	**54HCTLS368A**	**(3643)**
54HCTLS374	**Ideal Semi**	**54HCTLS393**	**(3643)**
54HCTLS393	**Ideal Semi**	**54HCTLS374**	**(3643)**
54HCTLS399	**Ideal Semi**	**54HCTLS51**	**(3643)**
54HCTLS51	**Ideal Semi**	**54HCTLS399**	**(3643)**
54HCTLS533	**Ideal Semi**	**54HCTLS534**	**(3643)**
54HCTLS534	**Ideal Semi**	**54HCTLS533**	**(3643)**
54HCTLS540	**Ideal Semi**	**54HCTLS541**	**(3643)**
54HCTLS541	**Ideal Semi**	**54HCTLS540**	**(3643)**
54HCTLS563	**Ideal Semi**	**54HCTLS564**	**(3643)**
54HCTLS564	**Ideal Semi**	**54HCTLS563**	**(3643)**
54HCTLS573	**Ideal Semi**	**54HCTLS574**	**(3643)**
54HCTLS574	**Ideal Semi**	**54HCTLS573**	**(3643)**
54HCTLS58	**Ideal Semi**	**54HCTLS590**	**(3643)**
54HCTLS590	**Ideal Semi**	**54HCTLS58**	**(3643)**
54HCTLS592	**Ideal Semi**	**54HCTLS593**	**(3643)**
54HCTLS593	**Ideal Semi**	**54HCTLS592**	**(3643)**
54HCTLS640	**Ideal Semi**	**54HCTLS643**	**(3643)**
54HCTLS643	**Ideal Semi**	**54HCTLS640**	**(3643)**
54HCTLS646	**Ideal Semi**	**54HCTLS648**	**(3643)**
54HCTLS648	**Ideal Semi**	**54HCTLS646**	**(3643)**
54HCTLS73A	**Ideal Semi**	**54HCTLS74A**	**(3643)**
54HCTLS74A	**Ideal Semi**	**54HCTLS73A**	**(3643)**
54HCTLS76A	**Ideal Semi**	**54HCTLS78A**	**(3643)**
54HCTLS78A	**Ideal Semi**	**54HCTLS76A**	**(3643)**
54HCTLS86	GoldStar	GD54HCT00	
	Harris	CD54HCT00	
	Motorola	MC54HCT00A	
	National	MM54HCT00	
	Rochester	54HCT00	
74AHCT00	National	74AC899	
74AHCT163	Samsung	KS74AHCT163	
74AHCT367	**Ideal Semi**	**74AHCT368**	**(3644)**
74AHCT368	**Ideal Semi**	**74AHCT367**	**(3644)**

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HCTLS01	Samsung	KS74HCTLS01	
74HCTLS533	Samsung	KS74HCTLS533	
74HCTLS563	Samsung	KS74HCTLS563	

ILC Data Device

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC85	MicroNet	ADC85	
ADC87	**MicroNet**	**ADC87**	**(3690)**
ADH8585	**Burr-Brown**	**ADC85H**	**(3473)**
	MicroNet	ADC85	
BUS61553	GEC Plessey	CT2553	
BUS61554	GEC Plessey	CT2554	
BUS61555	GEC Plessey	CT2555	
BUS61559	GEC Plessey	CT2559	
BUS62300	GEC Plessey	CT2077	
		CT3077	
BUS63102	GEC Plessey	CT3232	
BUS63104	GEC Plessey	CT3231	
BUS63105	GEC Plessey	CT1487	
BUS63106	GEC Plessey	CT1487	
BUS63107	GEC Plessey	CT1589	
BUS63108	GEC Plessey	CT1589	
BUS63112	GEC Plessey	CT3232	
BUS63114	GEC Plessey	CT3231	
BUS63115	GEC Plessey	CT1487	
BUS63116	GEC Plessey	CT1487	
BUS63117	GEC Plessey	CT1589	
BUS63118	GEC Plessey	CT1589	
BUS63125	GEC Plessey	CT1487	
BUS63126	GEC Plessey	CT1487	
BUS63127	GEC Plessey	CT1589	
BUS63128	GEC Plessey	CT1589	
BUS63135	GEC Plessey	CT1487	
BUS63136	GEC Plessey	CT1487	
BUS63137	GEC Plessey	CT1589	
BUS63138	GEC Plessey	CT1589	
BUS63147	GEC Plessey	CT2521	
BUS65111	GEC Plessey	CT2511	
BUS65112	GEC Plessey	CT2512	
BUS65113	GEC Plessey	CT2513	
BUS65142	GEC Plessey	CT2542	
BUS65201	GEC Plessey	CT1775	
BUS65600	GEC Plessey	CT2565	
BUS66300	GEC Plessey	CT2566	
BUS8555	GEC Plessey	CT3078	
DACS	**Burr-Brown**	**ADC85H**	**(3473)**
DACSL	**MicroNet**	**MN3860**	**(3692)**
DAC87	Burr-Brown	DAC87H	
	MicroNet	**DAC87**	**(3692)**
DDC5101	**MicroNet**	**MN5101**	**(3690)**
DDC5210	**MicroNet**	**MN5210**	**(3690)**
DDC5211	**MicroNet**	**MN5211**	**(3690)**
DDC5212	**MicroNet**	**MN5212**	**(3690)**
MN5216	**MicroNet**	**MN5216**	**(3690)**
THA05203	**MicroNet**	**MN376**	**(3693)**
THA05210	Analogic	SHA2200	
THA0523	**Burr-Brown**	**SHC803**	**(3471)**
		SHC804	**(3471)**

Integrated Circuit Systems

Manufacturer Device	Replacement Source	Device	IC Master Page
AV90C64	IC Sensors	ICS90C64	
AV9194	IC Sensors	ICS2994	
ICS1394	Startech	ST49C394	
ICS2494	Startech	ST49C214	
ICS90C61	Startech	ST49C061	

Integrated Device Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
CYM1540	IDT	IDT7MB4040	
CYM1541	IDT	IDT7MB4040	
IDM2901A	Cypress	CY7C901	
IDTIDT6116	AMD	AM9122	
IDT10A484	Cypress	CY10E484	
	Fujitsu	MBM10A484	
		MBM10484	
	Synergy	SY10L484	
		SY10484	
IDT100A484	Cypress	CY100E484	
	Synergy	SY100L484	
		SY100484	
IDT100480	Synergy	SY100480	
IDT100484	Cypress	CY100E484	
	Fujitsu	MBM100484	
	Synergy	SY100484	
IDT100490	Fujitsu	MBM100C490	
		MBM100490	
	Hitachi	HM100490	
IDT100494	Cypress	CY100E494	
		CY101E494	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Integrated Device Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT100494			(Cont'd)
	Fujitsu	MBM100C494	
	Hitachi	HM100494	
	National	NM100494	
IDT100496	Fujitsu	MBM100486	
	National	NM100492	
IDT100504	Fujitsu	MBM100C504	
	Hitachi	HM100504	
	National	NM100504	
IDT101A484	Cypress	CY1E484	
	Fujitsu	MBM101A484	
	Synergy	SY101L484	
		SY101484	
IDT101480	Synergy	SY101480	
IDT101484	Cypress	CY100E484	
	Synergy	SY101484	
IDT101490	Hitachi	HM101490	
IDT101494	Cypress	CY1E494	
		CY101E494	
	Fujitsu	MBM101494	
	Hitachi	HM10194	
IDT101504	Hitachi	HM101504	
	National	NM5104	
IDT1018	Signal Proc	HDAC10180	
IDT10480	Synergy	SY10480	
IDT10484	Cypress	CY10E484	
	Fujitsu	MBM10484	
	Synergy	SY10484	
IDT10490	Fujitsu	MBM10490	
	Hitachi	HM10490	
IDT10494	Cypress	CY10E494	
	Fujitsu	MBM10C494	
		MBM10494	
	Hitachi	HM10494	
	National	NM10494	
IDT10496	Fujitsu	MBM10486	
	National	NM4492	
IDT10504	Hitachi	HM10504	
IDT1257	Performance	P4C1257	
IDT1681	Performance	P4C1681	
IDT1682	Performance	P4C1682	
IDT189	Samsung	~~KM6465~~	
IDT1981	Performance	P4C1981	
IDT1982	Performance	P4C1982	
IDT29FCT52	Harris	CD74FCT2952	
	Performance	P29PCT52	
	Quality Semi	QS29FCT52	
IDT29FCT520	Harris	CD74FCT29520	
	LogicDev	L29C520	
	Performance	P29PCT520	
	Quality Semi	QS29FCT520	
IDT29FCT521	Harris	CD74FCT29521	
	LogicDev	L29C521	
	Performance	P29PCT521	
	Quality Semi	QS29FCT521	
IDT29FCT53	Harris	CD74FCT2953	
	Performance	P29PCT53	
	Quality Semi	QS29FCT53	
IDT29FCT818	Performance	P29PCT818	
IDT39C01	AMD	AM29C01	
		AM2901	
		AM7C901	
	Cypress	CY7C901	
	Waferscale	WS5901	
IDT39C09	Cypress	CY7C909	
IDT39C10	AMD	AM29C10	
		AM2910	
		AM7C910	
	Cypress	CY7C910	
	Waferscale	WS59510	
IDT39C11	Cypress	CY7C911	
IDT39C60	AMD	AM29C60	
IDT4210	Waferscale	WS59510	
IDT49C401	Cypress	CY7C9101	
	LogicDev	L29C101	
	Waferscale	WS59016	
IDT49C402	AMD	AM29C101	
IDT49C410	AMD	AM29C11	
IDT49C460	AMD	AM29C660	
IDT54FCT138	National	54FCT138	
	Performance	P54PCT138	
IDT54FCT139	Performance	P54PCT139	
IDT54FCT161	Performance	P54PCT161	
IDT54FCT163	Performance	P54PCT163	
IDT54FCT240	National	54FCT240	
	Performance	P54PCT240	
	TI	SNJ54BCT240	
	VTC	VJ54FCT240	
IDT54FCT241	National	54FCT241	
	Performance	P54PCT241	
	TI	SNJ54BCT241	
IDT54FCT244	National	54FCT244	
	Performance	P54PCT244	
	TI	SNJ54BCT244	
	VTC	VJ54FCT244	
IDT54FCT245	National	54FCT245	
	Performance	P54PCT245	
	TI	SNJ54BCT245	
	VTC	VJ54FCT245	
IDT54FCT273	Performance	P54PCT273	
IDT54FCT373	National	54FCT373	
	Performance	P54PCT373	
	TI	SNJ54BCT373	
	VTC	VJ54FCT373	
IDT54FCT374	National	54FCT374	
	Performance	P54PCT374	
	TI	SNJ54BCT374	
	VTC	VJ54FCT373	
IDT54FCT377	Performance	P54PCT377	
IDT54FCT399	Performance	P54PCT399	
IDT54FCT521	Performance	P54PCT521	
IDT54FCT533	National	54FCT533	
	Performance	P54PCT533	
	VTC	VJ54FCT533	
IDT54FCT534	Performance	P54PCT534	
	VTC	VJ54FCT534	
IDT54FCT540	National	54FCT540	
IDT54FCT541	National	54FCT541	
IDT54FCT543	Performance	P54PCT543	
IDT54FCT544	Performance	P54PCT544	
IDT54FCT573	National	54FCT573	
	Performance	P54PCT573	
	VTC	VJ54FCT573	
IDT54FCT574	Performance	P54PCT574	
	VTC	VJ54FCT574	
IDT54FCT640	Performance	P54PCT640	
	VTC	VJ54FCT640	
IDT54FCT643	Performance	P54PCT643	
IDT54FCT645	Performance	P54PCT645	
	VTC	VJ54FCT645	
IDT54FCT646	Performance	P54PCT646	
IDT54FCT648	Performance	P54PCT648	
IDT54FCT651	Performance	P54PCT651	
IDT54FCT652	Performance	P54PCT652	
IDT54FCT821	AMD	AM29821	
	Performance	P54PCT821	
	VTC	VJ54FCT821	
IDT54FCT823	AMD	AM29823	
	Performance	P54PCT823	
	VTC	VJ54FCT823	
IDT54FCT824	VTC	VJ54FCT824	
IDT54FCT825	Performance	P54PCT825	
	VTC	VJ54FCT825	
IDT54FCT827	AMD	AM29827	
	Performance	P54PCT827	
	VTC	VJ54FCT827	
IDT54FCT828	AMD	AM29828	
	Performance	P54PCT828	
IDT54FCT833	AMD	AM29833	
	Performance	P54PCT833	
IDT54FCT841	AMD	AM29841	
	Performance	P54FCT841	
		P54PCT841	
IDT54FCT843	AMD	AM29843	
	Performance	P54PCT843	
	VTC	VJ54FCT843	
IDT54FCT844	VTC	VJ54FCT844	
IDT54FCT845	AMD	AM29845	
	VTC	VJ54FCT845	
IDT54FCT853	Performance	P54PCT853	
IDT54FCT861	AMD	AM29861	
	VTC	VJ54FCT861	
IDT54FCT863	AMD	AM29863	
	VTC	VJ54FCT863	
IDT54FCT864	VTC	VJ54FCT864	
IDT61B298	Cypress	CY7B195	
		CY7C195	
	Hitachi	HM6708	
	LogicDev	L7C195	
	MicronSemi	MT5C2565	
	Motorola	MCM6209	
		MCM6709A	
	Performance	P4C1298	
	Quality Semi	QS86446	
	Samsung	KM64B258	
	Toshiba	TC55B465	
IDT61B928	Motorola	MCM6708	
		MCM6709	
IDT61B98	Motorola	MCM6209	
		MCM6290	
IDT61B98			(Cont'd)
	Quality Semi	QS8886	
	Samsung	KM64B66	
IDT6116	AT&T	ATT7C116	
	Cypress	CY6116	
		CY6116A	
		CY6117	
		CY7C128	
		CY7C128A	
	Harris	HM65162	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	MicronSemi	MT5C1608	
	Mosel-Vitelic	MS6516	
		V61C16	
	Motorola	MCM2018	
	Performance	P4C116	
	Sony	CXK5814	
		CXK5818	
	Toshiba	TMM2018	
	UMC	UM6116	
♦ IDT6116	Rochester	68CE16	
IDT61258	Samsung	KM64258	
IDT6129	Cypress	CY7C196	
IDT61298	AT&T	ATT7C195	
	Cypress	CY7C196	
	Hitachi	HM6209	
	LogicDev	L7C195	
	MicronSemi	MT5C2565	
	Mosel-Vitelic	MS62253A	
	Motorola	MCM6209	
	Paradigm	PDM41298	
	Sharp	LH52253	
	Toshiba	TC55465	
IDT61593	Motorola	MCM6293	
IDT61594	Motorola	MCM6294	
IDT61595	Motorola	MCM6295	
IDT6167	AMD	AM2167	
	AT&T	ATT7C167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
	Harris	HM65262	
	Hitachi	HM6267	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
	Mosel-Vitelic	V61C67	
	SGS-Thomson		
		IMS1403	
		MK41H66	
		MK41H67	
	Sharp	LH5167	
IDT6167A	Cypress	CY7C167A	
IDT6168	AMD	AM2168	
		AM2169	
	AT&T	ATT7C168	
	Cypress	CY7C168	
		CY7C168A	
		CY7C169	
	Fujitsu	MB81C68	
	Hitachi	HM6268	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M21C68	
	Mosel-Vitelic	V61C68	
	Motorola	MCM6168	
		MCM6268	
		MCM6269	
		MCM6288	
	Performance	P4C168	
	Quality Semi	QS8768	
	SGS-Thomson		
		IMS1423	
		MK41H68	
		MK41H69	
	Sony	CXK5416	
	Toshiba	TMM2068	
	UMC	UM6168	
IDT6177	AT&T	ATT7C181	
IDT6178	AT&T	ATT7C180	
	LogicDev	L7C180	
	Motorola	MCM4180	
IDT6178	Motorola		(Cont'd)
		MCM62350	
		MCM62351	
	Quality Semi	QS8780	
	SGS-Thomson		
		MK41H80	
		MK41S80	
IDT6197	Cypress	CY7C170	
		CY7C170A	
IDT61970	AT&T	ATT7C170	
	Cypress	CY7C170	
	LogicDev	L7C170	
	MicronSemi	MT5C1605	
	Motorola	MCM6270	
	SGS-Thomson		
		MK41H78	
		MK41H79	
IDT6198	AT&T	ATT7C166	
	Cypress	CY7C166	
	EDI	EDI8417	
	Hitachi	HM6289	
		HM6789	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mosel-Vitelic	MS6267A	
	Motorola	MCM6290	
	Performance	P4C198	
	Quality Semi	QS8886	
		QS8886A	
	Toshiba	TC55417	
IDT7B69	Motorola	MCM6265	
IDT7MB4040	IDT	CYM1540	
		CYM1541	
IDT7MB4048	Cypress	CYM1464	
	Mosaic Semi	MS8512	
IDT7MB4066	EDI	EDI8M16257	
	MicronSemi	MT8C16256	
IDT7MC156	EDI	EDH81H256	
	Mosaic Semi	MS1256	
IDT7MC400	Dense-Pac	DPS16X17	
IDT7MC4001	Dense-Pac	DPS10241	
IDT7MC4005	Cypress	CYM1610	
		CYM1611	
	Dense-Pac	DPS16X17	
	EDI	EDH816H16	
IDT7MC4032	Cypress	CYM1822	
IDT7MP156	EDI	EDH81H256	
	Mosaic Semi	MS1256	
IDT7MP4008	Cypress	CYM1460	
		CYM1461	
	Dense-Pac	DPS45128	
	Mosaic Semi	MS8512	
IDT7MP4028	Cypress	CYM1622	
	Dense-Pac	DPS64S16	
IDT7MP4031	Cypress	CYM1821	
	MicronSemi	MT8C3216	
	Mosaic Semi	MS3216	
IDT7MP4034	EDI	EDI8F8257	
		EDI8F8258	
	Mosaic Semi	MS8256	
	Motorola	MCM8256	
IDT7MP4036	Cypress	CYM1831	
		CYM1832	
	EDI	EDI8F3264	
	MicronSemi	MT8C3264	
		MT8S6432	
	Mosaic Semi	MS3264	
	Motorola	MCM3264	
IDT7MP4045	Cypress	CYM1841	
	EDI	EDI8M32256	
	MicronSemi	MT8C32256	
	Mosaic Semi	MS32256	
	Motorola	MCM32257	
IDT7MP4058	Cypress	CYM1461	
IDT7MP4095	MicronSemi	MT4S12832	
IDT7MP4301	MicronSemi	MT8S1632	
IDT7MP456	Dense-Pac	DPS8645	
	EDI	EDH84H64	
	LogicDev	LMM456	
IDT7MP564	Dense-Pac	DPS16X5	
IDT7MP6084	AT&T	ATTM6084	
IDT7MP6094	AT&T	ATTM6094	
IDT7M205	Cypress	CYM4210	
IDT7M206	Cypress	CYM4210	
		CYM4220	
IDT7M4003	Dense-Pac	DPS3232	
	Mosaic Semi	PUMA2S1000	
IDT7M4016	Cypress	CYM1641	
	Dense-Pac	DPS2516	
		DPS45129	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

nufacturer ice	Replacement Source	Device	IC Master Page

egrated Device Technology (Cont'd)

nufacturer ice	Replacement Source	Device	IC Master Page
T7M4016			(Cont'd)
	EDI	EDI8M16256	
	LogicDev	LMM4016	
T7M4017	Cypress	CYM1830	
	Dense-Pac	DPS6432	
		DPS6433	
	EDI	EDI8M3264	
	Mosaic Semi	MS3264	
T7M4034	Cypress	CYM1441	
	Dense-Pac	DPS5124	
		DPS6433	
T7M4042	Cypress	CYM1240	
	EDI	EDI8M4257	
T7M4048	Cypress	CYM1464	
		CYM1465	
		CYM1466	
	Dense-Pac	DPS512	
	EDI	EDI8M8512	
	Mosaic Semi	MS8512	
T7M4067	Cypress	CYM1840	
	EDI	EDI8M32256	
	Mosaic Semi	MS32256	
T7M4068	EDI	EDI8M8257	
T7M624	Cypress	CYM1621	
	Dense-Pac	DPS1024	
		DPS1026	
		DPS1027	
	EDI	EDI8M1664	
	LogicDev	LMM624	
	Mosaic Semi	MS1664	
7M656	Dense-Pac	DPS257	
		DSP257	
7M7004	Dense-Pac	DPE3232	
7M7864	NEC	μPD28C64	
7M812	Dense-Pac	DPS4648	
	EDI	EDI8M864	
7M856	EDI	EDH8832	
	LogicDev	L7C199	
7M864	Dense-Pac	DPS8808	
	EDI	EDH8808	
	Harris	HM65642	
7N4017	Cypress	CYM1830	
7004	Mosaic Semi	PUMA2E1000	
7005	Cypress	CY7B144	
71B024	Motorola	MCM6226	
71B028S20			
	Motorola	MCM6229A	
71B124	Fujitsu	MB82008	
71B256	Cypress	CY7B199	
		CY7C199	
	Motorola	MCM6206	
		MCM6706	
		MCM6706A	
	Quality Semi	QS83280	
	Toshiba	TC55B328	
71B258	Cypress	CY7B194	
		CY7C194	
	EDI	EDI8465	
	Hitachi	HM6708	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Motorola	MCM6208	
		MCM6708	
	Performance	P4C1258	
	Quality Semi	QS86440	
	Toshiba	TC55B464	
71B259	Motorola	MCM6205	
71B298	Cypress	CY7C196	
71B64	Motorola	MCM6264	
71B65	LogicDev	L7C186	
71B74	LogicDev	L7C174	
71B88	Samsung	KM64B65	
71C165	Mosel-Vitelic	MS6264	
71024	AT&T	ATT7C109	
	Cypress	CY7C108	
	MicronSemi	MT5C1008	
	Mosel-Vitelic	MS621008	
	Motorola	MCM6226	
	Paradigm	PDM41024	
	Samsung	KM681001	
	Sharp	LH521007	
		LH521008	
	Toshiba	TC551001	
71024S25	Motorola	MCM6226A	
71027	AT&T	ATT7C107	
	MicronSemi	MT5C1001	
	Samsung	KM611001	
71028	AT&T	ATT7C106	
	Cypress	CY7C106	
	MicronSemi	MT5C1005	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT71028			(Cont'd)
	Mosel-Vitelic	MS621002	
	Motorola	MCM6229	
	Samsung	KM641001	
	Sharp	LH521002	
IDT7105	SGS-Thomson		
		MK45H08	
IDT71231	Performance	P4C1281	
IDT71232	Performance	P4C1282	
IDT71256		S32K8	
	AT&T	ATT7C199	
	Cypress	CY7C198	
		CY7C199	
	Dense-Pac	DPS92256	
	EDI	EDH8832	
		EDI8832	
		EDI8833	
	Hitachi	HM62832	
	Krueger	62256-025	
		62256-030	
		62256-035	
		62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256	
	Motorola	MCM6206	
	NEC	μPD43256	
	Paradigm	PDM41256	
	Performance	P4C1256	
	Quality Semi	QS83280	
	Samsung	KM68257	
	Sharp	LH52250AL	
	Sony	CXK58256	
		CXK58258	
	Toshiba	TC55257	
		TC55328	
IDT7125630	Mosel-Vitelic	MS62256	
IDT71257	AT&T	ATT7C197	
	Cypress	CY7C197	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Mosel-Vitelic	MS62251	
	Paradigm	PDM41257	
	Samsung	KM61257	
IDT712575	Motorola	MCM6207	
IDT71258	AT&T	ATT7C194	
	Cypress	CY7C194	
	Hitachi	HM6208	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mosel-Vitelic	MS62252	
		MS62252A	
	Motorola	MCM6208	
	Paradigm	PDM41258	
	Quality Semi	QS86440	
	Samsung	KM64257	
	Sharp	LH52252	
	Toshiba	TC55464	
IDT71259	MicronSemi	MT5C2889	
	Motorola	MCM6205	
	Toshiba	TC55329	
IDT7128	Cypress	CY7C192	
IDT71281	AT&T	ATT7C191	
	Cypress	CY7C191	
	LogicDev	L7C191	
	Paradigm	PDM41251	
	Samsung	KM64260	
IDT71282	AT&T	ATT7C192	
	LogicDev	L7C192	
	Paradigm	PDM41252	
	Samsung	KM64259	
IDT7130	AMD	AM2130	
	Cypress	CY7C130	
		CY7C131	
	Mosel-Vitelic	6130	
IDT7132	Cypress	CY7C132	
	Mosel-Vitelic	6132	
IDT71321	Cypress	CY7C136	
IDT713256	MicronSemi	MT5LC2568	
IDT7134	Cypress	CY7B134	
		CY7B135	
IDT71342	Cypress	CY7C1342	
	Mosel-Vitelic	61342	
IDT7140	AMD	AM2140	
	Cypress	CY7C140	
		CY7C141	
IDT7142	Cypress	CY7C142	
IDT71421	Cypress	CY7C142	
		CY7C146	
IDT71586	UMC	UM61166	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT7164	AT&T	ATT7C185	
	Cypress	CY7C185	
		CY7C185A	
		CY7C186	
		CY7C186A	
	Dense-Pac	DPS9264	
	EDI	EDI8808	
	Fujitsu	MB81C78	
	Harris	HM65642	
	Krueger	6264-025	
		6264-035	
		6264-045	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M5165	
		M5M5178	
	Mosel-Vitelic	MS6264	
		MS6264A	
		V63C64	
	Motorola	MCM61L64	
		MCM6164	
		MCM6264	
	Performance	P4C164	
	SGS-Thomson		
		IMS1630	
		MK48H65	
	Sony	CXK5863	
		CXK5864	
		CXK5865	
	Toshiba	TC5563	
		TC5588	
	UMC	UM6164	
IDT7164-35	Krueger	6264LP-035	
IDT7164-45	Krueger	6264LP-045	
IDT7165	AT&T	ATT7C186	
	LogicDev	L7C186	
	Mosel-Vitelic	MS6264	
IDT71681	AT&T	ATT7C171	
	Cypress	CY7C170	
		CY7C171	
		CY7C171A	
	LogicDev	L7C171	
	Performance	P4C1681	
	Quality Semi	QS8761	
IDT71682	AT&T	ATT7C172	
	Cypress	CY7C172	
		CY7C172A	
	LogicDev	L7C172	
	MicronSemi	MT5C1607	
	Performance	P4C1682	
	Quality Semi	QS8762	
IDT716881	MicronSemi	MT5C1606	
IDT7169	Cypress	CY7C182	
		CY7C187	
	EDI	EDI8908	
	Motorola	MCM6265	
	Performance	P4C163	
	Toshiba	TC5589	
IDT7174	AT&T	ATT7C174	
	LogicDev	L7C174	
	SGS-Thomson		
		MK48H74	
IDT7178	LogicDev	L7C181	
IDT7187	AT&T	ATT7C187	
	Cypress	CY7C187	
		CY7C187A	
	EDI	EDI8164	
	Fujitsu	MB81C71	
	Hitachi	HM6287	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	Performance	P4C187	
	SGS-Thomson		
		IMS1600	
		MK41H87	
	Toshiba	TC5561	
		TC5562	
♦ IDT7187	Rochester	61CD64	
IDT7188	AT&T	ATT7C164	
	Cypress	CY7C164	
		CY7C164A	
	EDI	EDI8416	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT7188			(Cont'd)
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Mitsubishi	M5M5188	
	Motorola	MCM6288	
	Performance	P4C188	
	Quality Semi	QS8888	
	Samsung	KM6465	
	SGS-Thomson		
		IMS1620	
	Sony	CXK5464	
	Toshiba	TC55416	
IDT7198	AT&T	ATT7C165	
	Cypress	CY7C166	
		CY7C166A	
	Fujitsu	MB81C75	
	LogicDev	L7C165	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Performance	P4C198	
		P4C198A	
	Quality Semi	QS8885	
	SGS-Thomson		
		IMS1624	
IDT71981	AT&T	ATT7C161	
	Cypress	CY7C161	
		CY7C161A	
	LogicDev	L7C161	
	MicronSemi	MT5C6406	
	Performance	P4C1981	
	Quality Semi	QS8881	
IDT71982	AT&T	ATT7C162	
	Cypress	CY7C162	
		CY7C162A	
	LogicDev	L7C162	
	MicronSemi	MT5C6407	
	Performance	P4C1982	
	Quality Semi	QS8882	
IDT7200	Mosel-Vitelic	MS7200	
		7200	
	Sharp	LH5495	
IDT7201	Cypress	CY7C420	
		CY7C421	
		CY7C421A	
	Dallas	DS2009	
	Exar	XRT7201	
	MicronSemi	MT52C9005	
	Mosel-Vitelic	MS7201	
		7201A	
		7202A	
	Quality Semi	QS7201	
		QS8201	
	Samsung	KM75C01	
	SGS-Thomson		
		MK45H01	
		MK4501	
	Sharp	LH5496	
IDT7202	AMD	AM7202	
		AM7202A	
	Cypress	CY7C424	
		CY7C425	
		CY7C425A	
	Dallas	DS2010	
	Exar	XRT7202	
	MicronSemi	MT52C9010	
	Mosel-Vitelic	MS7202A	
		7201A	
		7202A	
	Quality Semi	QS7202	
		QS8202	
	Samsung	KM75C02	
		KM75C02A	
	Sharp	LH5497	
IDT72021	Samsung	KM75C102	
IDT7203	AMD	AM7203	
		AM7203A	
	Cypress	CY7C428	
		CY7C429	
	Dallas	DS2011	
	Exar	XRT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	MX7203	
		7203	
	Quality Semi	QS7203	
	Samsung	KM75C03	
		KM75C03A	
	SGS-Thomson		
		MK4503	
	Sharp	LH5498	
	UMC	UM4503	
IDT72031	Samsung	KM75C103	
IDT7204	AMD	AM7204	
		AM7204A	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Integrated Device Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT7204			(Cont'd)
	Cypress	CY7C432	
		CY7C433	
	MicronSemi	MT52C4K9	
	Mosel-Vitelic	7204	
	Quality Semi	QS7204	
	SGS-Thomson	MK45H04	
	Sharp	LH5499	
IDT72041	Samsung	KM75C104	
IDT72045	Cypress	CY7C433	
IDT7205	AMD	AM7205A	
	Cypress	CYM4210	
		CY7C460	
	MicronSemi	MT52C8K9	
IDT7206	Cypress	CY7C462	
IDT7209	LogicDev	LMA1009	
		LMA2009	
		LMU2009	
IDT7210	AD	ADSP1010	
	Harris	HMA510	
	LogicDev	LDI2010	
		LMA1010	
		LMA2010	
	TRWLSI	TDC1010	
		TMC2010	
		TMC2110	
IDT7212	LogicDev	LMU12	
IDT7216	AD	ADSP1016	
	Cypress	CY7C516	
	Harris	HMU16	
	LogicDev	LMU16	
		LMU216	
	TRWLSI	MPY016	
		TMC216	
IDT7217	Harris	HMU17	
	LogicDev	LMU17	
		LMU217	
IDT72205A	Paradigm	PDM42205	
IDT72215	MicronSemi	MT53C51218	
IDT72215A	Paradigm	PDM42215	
IDT72225	MicronSemi	MT53C1K18	
IDT72225A	Paradigm	PDM42225	
IDT72235	MicronSemi	MT53C1K18	
IDT72245	MicronSemi	MT53C1K18	
IDT72401	AMD	C67401	
		C67401A	
		57C401	
		67C401	
		67401	
	Cypress	CY3341	
		CY7C401	
		C57401A	
		57401A	
	GEC Plessey	MV66401	
	TI	SN54ALS236	
		SN74ALS236	
		54ALS236	
		74ALS236	
IDT72402	AMD	C57402A	
		C67402	
		C67402A	
		57C402	
		57402A	
		67C402	
		67402	
		67402A	
	Cypress	CY7C402	
	GEC Plessey	MV66402	
IDT72403	AMD	57C4013	
		67C4013	
	Cypress	CY7C403	
	GEC Plessey	MV66403	
	TI	SN54ALS234	
		SN74ALS234	
		54ALS234	
		74ALS234	
IDT72404	AMD	57C4023	
		67C4023	
	Cypress	CY7C404	
	GEC Plessey	MV66404	
IDT72413	AMD	57C4033	
		57413	
		67C4033	
		67C413	
		67413	
		67413A	
	TI	SN54ALS235	
		SN74ALS235	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT72413	TI		(Cont'd)
		54ALS235	
		74ALS235	
IDT7243	LogicDev	LDI2010	
		LMA1010	
IDT7381	LogicDev	L4C381	
♦ IDT74AHCT138	**Ideal Semi**	**74AHCT138**	**(3644)**
♦ IDT74AHCT139	**Ideal Semi**	**74AHCT139**	**(3644)**
♦ IDT74AHCT161	**Ideal Semi**	**74AHCT161**	**(3644)**
♦ IDT74AHCT163	**Ideal Semi**	**74AHCT163**	**(3644)**
	Samsung	KS74AHCT163	
♦ IDT74AHCT191	**Ideal Semi**	**74AHCT191**	**(3644)**
♦ IDT74AHCT193	**Ideal Semi**	**74AHCT193**	**(3644)**
♦ IDT74AHCT240	**Ideal Semi**	**74AHCT240**	**(3644)**
♦ IDT74AHCT244	**Ideal Semi**	**74AHCT244**	**(3644)**
♦ IDT74AHCT245	**Ideal Semi**	**74AHCT245**	**(3644)**
♦ IDT74AHCT273	Ideal Semi	74AHCT273	
♦ IDT74AHCT299	**Ideal Semi**	**74AHCT299**	**(3644)**
♦ IDT74AHCT373	**Ideal Semi**	**74AHCT373**	**(3644)**
♦ IDT74AHCT374	**Ideal Semi**	**74AHCT374**	**(3644)**
♦ IDT74AHCT533	**Ideal Semi**	**74AHCT533**	**(3644)**
IDT74FBT2828	TI	SN74BCT2828	
IDT74FBT827	TI	SN74BCT2827	
IDT74FCT138	Harris	CD74ACT138	
	Performance	P74FCT138	
		P74PCT138	
	Quality Semi	QS74FCT138	
IDT74FCT139	Harris	CD74ACT139	
	Performance	P74FCT139	
		P74PCT139	
	Quality Semi	QS74FCT139	
IDT74FCT151	Harris	CD74ACT151	
IDT74FCT157	Harris	CD74ACT157	
IDT74FCT161	Harris	CD74ACT161	
	Performance	P74FCT161	
		P74PCT161	
IDT74FCT163	Harris	CD74ACT163	
	Performance	P74FCT163	
		P74PCT163	
IDT74FCT191	Harris	CD74ACT191	
IDT74FCT193	Harris	CD74ACT193	
IDT74FCT240	Harris	CD74FCT240	
	National	74FCT240	
	Performance	P74PCT240	
	Quality Semi	QS74FCT240	
	TI	SN74BCT240	
	VTC	V54FCT240	
		V74FCT240	
IDT74FCT241	Harris	CD74FCT241	
	National	74FCT241	
	Performance	P74PCT214	
		P74PCT241	
	Quality Semi	QS74FCT241	
	TI	SN74BCT241	
IDT74FCT244	Harris	CD74FCT244	
	National	74FCT244	
	Performance	P74FCT244	
		P74PCT244	
	Quality Semi	QS74FCT244	
	TI	SN74BCT244	
	VTC	V74FCT244	
IDT74FCT245	Harris	CD74FCT245	
	Performance	P74PCT245	
	Quality Semi	QS74FCT245	
	TI	SN74BCT245	
	VTC	V54FCT245	
		V74FCT245	
IDT74FCT251	Harris	CD74ACT251	
IDT74FCT257	Harris	CD74ACT257	
IDT74FCT273	Harris	CD74FCT273	
	Performance	P74FCT273	
		P74PCT273	
	Quality Semi	QS74FCT273	
IDT74FCT299	Harris	CD74ACT299	
IDT74FCT373	Harris	CD74FCT373	
	Performance	P74FCT373	
		P74PCT373	
	Quality Semi	QS74FCT373	
	TI	SN74BCT373	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT74FCT373			(Cont'd)
	VTC	V54FCT373	
		V74FCT373	
IDT74FCT374	Harris	CD74FCT374	
	Performance	P74FCT374	
		P74PCT374	
	Quality Semi	QS74FCT374	
	TI	SN74BCT374	
	VTC	V54FCT374	
		V74FCT374	
IDT74FCT377	Performance	P74FCT377	
		P74PCT377	
	Quality Semi	QS74FCT377	
IDT74FCT399	Performance	P54PCT399	
IDT74FCT521	Performance	P74FCT521	
		P74PCT521	
	Quality Semi	QS74FCT521	
IDT74FCT533	Harris	CD74FCT533	
	IDT	P74PCT533	
	Quality Semi	QS74FCT533	
	VTC	V54FCT533	
		V74FCT533	
IDT74FCT534	Harris	CD74FCT534	
	Performance	P74PCT534	
	Quality Semi	QS74FCT534	
	TI	SN74BCT534	
	VTC	V54FCT534	
		V74FCT534	
IDT74FCT540	Harris	CD74FCT540	
	Quality Semi	QS74FCT540	
	TI	SN74BCT540	
IDT74FCT541	Harris	CD74FCT541	
	Quality Semi	QS74FCT541	
	TI	SN74BCT541	
IDT74FCT543	Harris	CD74FCT543	
	Performance	P74FCT543	
	Quality Semi	QS74FCT543	
	TI	SN74BCT543	
IDT74FCT573	Harris	CD74FCT573	
	Performance	P74FCT573	
		P74PCT573	
	Quality Semi	QS74FCT573	
	VTC	V54FCT573	
		V74FCT573	
IDT74FCT574	Harris	CD74FCT574	
	Performance	P74FCT574	
		P74PCT574	
	Quality Semi	QS74FCT574	
	VTC	V54FCT574	
		V74FCT574	
IDT74FCT640	Performance	P74PCT640	
	TI	SN74BCT640	
	VTC	V54FCT640	
		V74FCT640	
IDT74FCT645	Performance	P74PCT645	
	VTC	V54FCT645	
		V74FCT645	
IDT74FCT646	Harris	CD74FCT646	
	Performance	P74PCT646	
	Quality Semi	QS74FCT646	
	TI	SN74BCT646	
IDT74FCT648	Harris	CD74FCT648	
	Quality Semi	QS74FCT648	
IDT74FCT651	Harris	CD74FCT651	
	Performance	P74FCT651	
	Quality Semi	QS74FCT651	
IDT74FCT652	Harris	CD74FCT652	
	Performance	P74FCT652	
	Quality Semi	QS74FCT652	
	TI	SN74BCT652	
IDT74FCT821	AMD	AM29C821A	
		AM29821	
	Harris	CD74FCT821	
	Performance	P54PCT821	
		P74PCT821	
	Quality Semi	QS74FCT821	
	TI	SN74BCT29821	
	VTC	V54FCT821	
		V74FCT821	
IDT74FCT822	Harris	CD74FCT822	
IDT74FCT823	AMD	AM29C823A	
		AM29823	
	Harris	CD74FCT823	
	Performance	P74PCT823	
	Quality Semi	QS74FCT823	
	TI	SN74BCT29823	
	VTC	V54FCT823	
		V74FCT823	
IDT74FCT824	Harris	CD74FCT824	
	TI	SN74BCT29824	
	VTC	V54FCT824	
		V74FCT824	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
IDT74FCT825	Performance	P74PCT825	
	Quality Semi	QS74FCT825	
	TI	SN74BCT29825	
	VTC	V54FCT825	
		V74FCT825	
IDT74FCT827	AMD	AM27827	
		AM29C827A	
		AM29827	
	Harris	CD74FCT827	
	Performance	P74PCT827	
	Quality Semi	QS74FCT827	
	TI	SN74BCT29827	
	VTC	V54FCT827	
		V74FCT827	
IDT74FCT828	AMD	AM27828	
		AM29C828A	
	Harris	CD74FCT828	
	Performance	P74PCT828	
	Quality Semi	QS74FCT828	
IDT74FCT833	AMD	AM27833	
		AM29C833A	
	Performance	P74PCT833	
IDT74FCT841	AMD	AM29C841A	
		AM29841	
	Harris	CD74FCT841	
	Performance	P74FCT841	
		P74PCT841	
	Quality Semi	QS74FCT841	
	TI	SN74BCT29841	
		SN74BCT841	
	VTC	V54FCT841	
		V74FCT841	
IDT74FCT842	Harris	CD74FCT842	
IDT74FCT843	AMD	AM29C843A	
		AM29843	
	Harris	CD74FCT843	
	Performance	P74PCT843	
	Quality Semi	QS74FCT843	
	TI	SN74BCT29843	
	VTC	V54FCT843	
		V74FCT843	
IDT74FCT844	Harris	CD74FCT844	
	TI	SN74BCT29844	
	VTC	V54FCT844	
		V74FCT844	
IDT74FCT845	AMD	AM29845	
	Quality Semi	QS74FCT845	
	TI	SN74BCT29845	
	VTC	V54FCT845	
		V74FCT845	
IDT74FCT853	AMD	AM29C853A	
	Performance	P74PCT853	
IDT74FCT861	AMD	AM29C861A	
	Harris	CD74FCT861	
	Quality Semi	QS74FCT861	
	TI	SN74BCT29861	
	VTC	V54FCT8461	
		V54FCT8615	
		V74FCT861	
IDT74FCT862	Harris	CD74FCT862	
	Quality Semi	QS74FCT862	
IDT74FCT863	AMD	AM29C863A	
	Harris	CD74FCT863	
	Quality Semi	QS74FCT863	
	TI	SN74BCT29863	
	VTC	V54FCT863	
		V74FCT863	
IDT74FCT864	Harris	CD74FCT864	
	Quality Semi	QS74FCT864	
	TI	SN74BCT29864	
	VTC	V54FCT864	
		V74FCT864	
♦ IDT74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
♦ IDT74HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(383**
IDT75C18	GEC Plessey	SP97618	
IDT75C457	Brooktree	BT457	
IDT75C458	AMD	AM81C458	
	Brooktree	BT458	
IDT75C48	**AD**	**AD9048**	**(350**
	Datel	**ADC304**	**(356**
	Sony	SXA1096	
	TRWLSI	TDC1048	
IDT78C64	NEC	µPD28C64	
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ntegrated Device Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
DT79R3000	LSI Comp	LR3000	
	Performance	PR3000	
DT79R3000A	Performance	PR3000A	
DT79R3010	LSI Comp	LR3010	
	Performance	PR3010	
DT79R3010A	Performance	PR3010A	
DT79R3020	LSI Comp	LR3020	
	Performance	PR3020	
DT79R3051	Siemens	SABR3051	
		SABR3052	
DT79R3500	Performance	PR3400L	
DT79R4000	Performance	PR4000	
DT8MP824	Cypress	CYM1422	
	EDI	EDI8M8128	
DT8M612	Dense-Pac	DPS8M612	
	MicronSemi	MT85C1632	
DT8M624	Cypress	CYM1620	
		CYM1623	
	Dense-Pac	DPS8M624	
	EDI	EDI8F1664	
		EDI8M1664	
	MicronSemi	MT85C1664	
	Mosaic Semi	MS1664	
DT8M656	Cypress	CYM1610	
DT8M824	Cypress	CYM1420	
		CYM1421	
		CYM1422	
		CYM1423	
	Dense-Pac	DPS41288	
	EDI	EDI8M8128	
		EDI8M8130	
	LogicDev	LMM824	
		L7C199	
	MicronSemi	MT85C8128	
	Mosaic Semi	MS8128	
)T8M856	Dense-Pac	DPS40256	
		DPS41257	
	EDI	EDH8832	
)T8M864	EDI	EDH8808	
	Harris	HM65642	
)T8N624	Cypress	CYM1620	
IK4503	SGS-Thomson	MK45H03	
		MK4503	
IPY12	LogicDev	LMU12	
74PCT533	IDT	IDT74FCT533	
3000A	Siemens	SABR3000A	
3010A	Siemens	SABR3010A	
3500	Siemens	SABR3500	
4000	Siemens	SABR4000	
DT7202	SGS-Thomson	MK45H02	
9FCT521	Waferscale	WS59520	
		WS59521	
164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
4HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
4HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
4HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
4HC244	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
4HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
4HC245	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
			(Continued)
♦ 74HC245	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
♦ 74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
♦ 74HC273	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
♦ 74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
♦ 74HC533	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
♦ 74HC533	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
♦ 74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
♦ 74HC534	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
♦ 74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
♦ 74HC640	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**

Integrated Logic Systems

Manufacturer Device	Replacement Source	Device	IC Master Page
CME1201	Altera	E0910	
		EPM5016	
		EPM5024	
		EPM5032	
		EP310	
		EP320	
		EP512	
		EP600	
		EP610	
		EP900	
CME1202	Altera	EPM5064	
		EP1800	
		EP1810	
	Xilinx	XC2018	
		XC2064	
		XC3020	
		XC3030	
CME1204	Actel	ACT1225	
	Altera	EPM5192	
		EPM7128	
		EPM7192	
	Xilinx	XC3030	
		XC3042	
		XC3064	
		XC3090	

Integrated Silicon Solution

Manufacturer Device	Replacement Source	Device	IC Master Page
IS61C256	Sharp	LH52250AL	
		LH52258	
IS61C64	Toshiba	TC5588	
IS61C66	Toshiba	TC55416	
IS62C1024	Toshiba	TC551001	
IS62C256	Toshiba	TC55257	
61C88	Toshiba	TC55417	

Intel

Manufacturer Device	Replacement Source	Device	IC Master Page
iPLD22V10	Cypress	PALC22V10	
A80186	AMD	A80186	
C80186-3	AMD	R80186	
C80286-8	AMD	R80286-8	
DP8304	Intel	D8286	
		P8286	
D2114	AMD	AM9114	
	Krueger	**2114-200**	**(3663)**
D2114U00	**Krueger**	**2114-150**	**(3663)**
		2114-450	**(3663)**
D2118	Krueger	4116S	
D2147	AMD	AM2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
D2148	AMD	AM2148	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
D2149	AMD	AM2149	
D27C010	AMD	AM27C010	
	Krueger	27C010	
D27C020	AMD	AM27C020	
D27C210	AMD	AM27C1024	
	Krueger	27C210	
D27C2566	Krueger	27C256-150	
		27C256-200	
		27C256-250	
D27C512	AMD	AM27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
D27C64	AMD	AM27C64	
D27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
D27128A	AMD	AM27C128	
D2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
D27210-200V10	Philips	27C210-20	
		27C210FA	
D27256	**Krueger**	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
D2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
D2732A	**Krueger**	**2732A-250**	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
D27512	**Krueger**	**27512-200**	**(3663)**
		27512-250	**(3663)**
D2764	Krueger	27C64-200	
		27C64-250	
		27C64-300	
		2764-200	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
D2764A	**Krueger**	**2764A-200**	**(3663)**
		2764A-300	**(3663)**
		2764A-450	**(3663)**
D28F010	SEEQ	48F010	
D28F512	SEEQ	48F512	
D80C31	AMD	D80C31	
D80C51	AMD	D80C51	
D8031	AMD	D8031	
D8051	AMD	D8051	
D8052	AMD	P8052	
	Philips	SCN8052	
	Siemens	SAB8052	
D8086	Krueger	8086	
D8088	Krueger	8088	
D8212	National	DP8212	
♦ D8212	**Lansdale**	**IL8212**	**(3664)**
♦ D8214	**Lansdale**	**IL8214**	**(3664)**
D8216	Motorola	MC8T26	
	National	DP8216	
♦ D8216	**Lansdale**	**IL8216**	**(3664)**
D8224	National	DP8224	
♦ D8224	**Lansdale**	**IL8224**	**(3664)**
D8226	Motorola	MC8T28	
	National	DP8226	
♦ D8226	**Lansdale**	**IL8226**	**(3664)**
D8228	National	DP8228	
♦ D8228	**Lansdale**	**IL8228**	**(3664)**
			(Continued)
D8238	National	DP8238	
♦ D8282	**Lansdale**	**IL8282**	**(3664)**
♦ D8283	**Lansdale**	**IL8283**	**(3664)**
♦ D8284A	Lansdale	IL8284A	
D8286	Intel	DP8304	
♦ D8286	**Lansdale**	**IL8286**	**(3664)**
D8287	National	DP8303	
♦ D8287	**Lansdale**	**IL8287**	**(3664)**
♦ D8288	Lansdale	IL8288	
♦ D8289	**Lansdale**	**IL8289**	**(3664)**
D87C51	AMD	D87C51	
	Philips	**SC87C51**	**(3707)**
D8751	AMD	D7651	
D8752	AMD	D8753	
D8862	AMD	D8053	
IMC001FLKA	AMD	AMC001FLKA	
IMC002FLKA	AMD	AMC002FLKA	
IMC004FLKA	AMD	AMC004FLKA	
IMS2600	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
MD27C256	SEEQ	27C256	
	TI	SMJ27C256	
MD27C256-20B	TI	SMJ27C256-20	
MD27C64	Microchip	27C64	
MD27128	Microchip	27C128	
	SEEQ	27128	
MD27128A	TI	SMJ27C128	
MD27128A-15B	TI	SMJ27C128-15	
MD27128A-20B	TI	SMJ27C128-20	
MD27128A-30B	TI	SMJ27C128-30	
MD27256	Microchip	27C256	
	TI	SMJ27C256	
MD27256-17B	TI	SMJ27C256-17	
MD27512	Microchip	27C512	
	TI	SMJ27C512	
MD27512-20B	TI	SMJ27C512-20	
MD27512-25B	TI	SMJ27C512-25	
MD2764	Microchip	27C64	
	SEEQ	2764	
MD2816	Microchip	28C16	
MD2817	Microchip	28C17	
♦ MD8080	Rochester	8080	
♦ MD8212	**Lansdale**	**IL8212**	**(3664)**
♦ MD8214	**Lansdale**	**IL8214**	**(3664)**
♦ MD8216	**Lansdale**	**IL8216**	**(3664)**
♦ MD8224	**Lansdale**	**IL8224**	**(3664)**
♦ MD8226	**Lansdale**	**IL8226**	**(3664)**
♦ MD8228	**Lansdale**	**IL8228**	**(3664)**
♦ MD8282	**Lansdale**	**IL8282**	**(3664)**
♦ MD8283	**Lansdale**	**IL8283**	**(3664)**
♦ MD8284A	Lansdale	IL8284A	
♦ MD8286	**Lansdale**	**IL8286**	**(3664)**
♦ MD8287	**Lansdale**	**IL8287**	**(3664)**
♦ MD8288	Lansdale	IL8288	
♦ MD8289	**Lansdale**	**IL8289**	**(3664)**
MT5C1001	NEC	µPD431001	
MT5C1005	NEC	µPD431004	
M2147	Cypress	CY7C169	
M2148	Cypress	CY2148	
M2149	Cypress	CY2149	
M51C98	LogicDev	L7C164	
M8080	Lansdale	IL8080	
♦ M8080A	**Lansdale**	**IL8080A**	**(3664)**
♦ M8212	**Lansdale**	**IL8212**	**(3664)**
♦ M8214	**Lansdale**	**IL8214**	**(3664)**
M8216	Motorola	MC8T26	
♦ M8216	**Lansdale**	**IL8216**	**(3664)**
♦ M8224	**Lansdale**	**IL8224**	**(3664)**
M8226	Motorola	MC8T28	
♦ M8226	**Lansdale**	**IL8226**	**(3664)**
♦ M8228	**Lansdale**	**IL8228**	**(3664)**
♦ M8282	**Lansdale**	**IL8282**	**(3664)**
♦ M8283	**Lansdale**	**IL8283**	**(3664)**
M8284	Lansdale	IL8284	
♦ M8284A	Lansdale	IL8284A	
♦ M8286	**Lansdale**	**IL8286**	**(3664)**
♦ M8287	**Lansdale**	**IL8287**	**(3664)**
♦ M8288	Lansdale	IL8288	
♦ M8289	**Lansdale**	**IL8289**	**(3664)**
M87C51	**Philips**	**SC87C51**	**(3707)**
N80C186	AMD	N80C186	
N80C188	AMD	N80C188	
N80C31	AMD	N80C31	
	Philips	**SC80C31**	**(3707)**
N80C32	AMD	N80C32	
			(Continued)

continued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Intel (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
N80C51	AMD	N80C51	
	Philips	SC80C51	
N80C52	AMD	N80C52	
N80286-10	AMD	N80L286-10	
N80286-12	AMD	N80L286-12	
N80286-8	AMD	N80L286-8	
N8031	AMD	N8031	
	Philips	SCN8031	
	Siemens	SAB8031	
N8032	Philips	SCN8032	
	Siemens	SAB8032	
N8051	AMD	N8051	
	Philips	SCN8051	
	Siemens	SAB8051	
N8052	Philips	N8053	
		SCN8052	
	Siemens	SAB8052	
N82C54	Newbridge	CA82C54	
N82C55A	Newbridge	CA82C55A	
N87C51	**Philips**	**SC87C51**	(3707)
PG51256	Mosel-Vitelic	MS62256	
PLD22V10	AMD	AMPAL22V10	
		PALCE22V10	
		PAL22V10	
	Cypress	PALC22V10	
		PAL22VP10	
		PAL22V10	
	Lattice	GAL22V10	
	National	GAL22V10	
		PAL20L10	
	TI	TIBPAL22VP10	
		TIBPAL22V10	
PLD610	AMD	PALCE20RA10	
		PALCE610	
	Altera	EL610	
		EP600	
		EP630	
	Cypress	PLDC20RA10	
	Lattice	GAL20RA10	
	National	GAL20RA10	
		PAL20RA10	
	TI	EP610	
		EP630	
PLD910	Altera	EP910	
	TI	EP910	
P21010	Krueger	511000-100	
		511000-70	
		511000-80	
	Motorola	MCM511000	
		MCM511000A	
P21014	Motorola	MCM514256	
		MCM514256A	
P21040	Motorola	MCM54100	
		MCM54100A	
P2114	AMD	AM91L14	
		AM9114	
P21256	Krueger	41256-080	
		41256-100	(3663)
		41256-120	(3663)
		41256-150	(3663)
P2141	AMD	AM21L41	
P21464	**Krueger**	**41464-100**	(3663)
		41464-120	(3663)
		41464-150	(3663)
P27C64	AMD	AM27C64	
P27128	Catalyst Semi	CAT27128	
P27257	Catalyst Semi	CAT27256	
P2764	Catalyst Semi	CAT2764	
P5116	**Krueger**	**6116-120**	(3663)
		6116-150	(3663)
		6116-200	(3663)
P51256	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
P5164	Mosel-Vitelic	MS6264A	
P5164L	Krueger	6264L-120	
		6264LP-100	(3663)
		6264LP-120	(3663)
		6264LP-150	(3663)
P80C31	AMD	P80C31	
	Fujitsu	MBL80C31	
	OKI	MSM80C31	
	Philips	**80C31**	(3707)
	Siemens	SAB80C31	
P80C32	AMD	P80C32	
P80C51	AMD	P80C51	
	Fujitsu	MBL80C51	
	OKI	MSM80C51	
	Philips	SC80C51	
	Siemens	SAB80C51	
P80C52	AMD	P80C52	
	Siemens	SAB80C52	
P80C52BH	**Siemens**	**SABC501-1R**	(3767)
P8031	AMD	P8031	
	Fujitsu	MBL8031	
	Krueger	8031	
	Philips	SCN8031	
	Siemens	SAB8031	
P8032	Philips	SCN8032	
	Siemens	SAB8032	
P8035	Krueger	8035	
P8039	Krueger	8039	
P8051	AMD	P8051	
	Fujitsu	MBL8051	
	Philips	SCN8051	
	Siemens	SAB8051	
P8051A	Siemens	SAB8051A	
P8052	AMD	P8053	
	Philips	SCN8052	
	Siemens	SAB8052	
P8052AH	Siemens	8052B	
P8080A	Krueger	8080A	
P8085A	Krueger	8085A	
	Newbridge	CA80C85B	
P8086	Krueger	8086	
P8088	Krueger	8088	
	Siemens	SAB8088	
P82C54	AMD	P82C54	
	Newbridge	CA82C54	
P82C59A	Newbridge	CA82C59A	
P82C84A	Newbridge	CA82C84A	
P82C88	Newbridge	CA82C88	
P8212	National	DP8212	
♦ P8212	**Lansdale**	**IL8212**	(3664)
♦ P8214	**Lansdale**	**IL8214**	(3664)
P8216	National	DP8216	
♦ P8216	**Lansdale**	**IL8216**	(3664)
P8224	National	DP8224	
♦ P8224	**Lansdale**	**IL8224**	(3664)
P8226	National	DP8226	
♦ P8226	**Lansdale**	**IL8226**	(3664)
♦ P8228	**Lansdale**	**IL8228**	(3664)
P82284	Intel	SAB82284	
	Siemens	SAB82284	
	UMC	UM82C84	
P822888	Siemens	SAB82288	
P8237	Krueger	8237	
	UMC	UM8237	
P8237A	Newbridge	CA82C37A	
	Siemens	SAB8237A	
P8238	National	DP8238	
P8251	Krueger	8251	
P8253	Krueger	8253	
	UMC	UM8253	
P8254	Krueger	8254	
	Newbridge	CA82C54	
P8255	Krueger	8255	
P8257	Krueger	8257	
P8259	UMC	UM8259	
P8259A	Krueger	8259	
	Newbridge	CA82C59A	
	Siemens	SAB8259A	
P8272	UMC	UM8272	
♦ P8282	**Lansdale**	**IL8282**	(3664)
♦ P8283	**Lansdale**	**IL8283**	(3664)
P8284A	Newbridge	CA82C84A	
	Siemens	SAB8284	
♦ P8284A	Lansdale	IL8284A	
P8286	Intel	DP8304	
♦ P8286	**Lansdale**	**IL8286**	(3664)
P8287	National	DP8303	
♦ P8287	**Lansdale**	**IL8287**	(3664)
P8288	Siemens	SAB8288A	
♦ P8288	Lansdale	IL8288	
P87C51	**Philips**	**SC87C51**	(3707)
R80186	AMD	R80186	
	Siemens	SAB80186	
R80186-10	AMD	R80186-10	
R80188	AMD	R80188	
R80188-10	AMD	R80188-10	
R80286	Siemens	SAB80286	
R80286-10	AMD	R80286-10	
R80286-12	AMD	R80286-12	
R80286-8	AMD	R80286-8	
R82258	Siemens	SAB82258	
SAB82284	AMD	82284	
	Fujitsu	MBL82284	
	Intel	P82284	
SM21019	Motorola	MCM91000	
SM210910	Motorola	MCM8L1000	
S80C186	AMD	S80C186	
S80C188	AMD	S80C188	
T21040	Motorola	MCM514100	
1M29C510	Waferscale	WS59510	
1223	Cypress	CY7C148	
1400	Cypress	CY7C167	
1403	Cypress	CY7C167	
1420	Cypress	CY7C168	
1421	Cypress	CY7C169	
1423	Cypress	CY7C168	
1433	Cypress	CY7C128	
1600	Cypress	CY7C187	
1601	Cypress	CY7C187	
1620	Cypress	CY7C164	
1624	Cypress	CY7C166	
1625	Cypress	CY7C164	
1630	Cypress	CY7C186	
1800	Cypress	CY7C194	
		CY7C197	
1830	Cypress	CY7C198	
2101	Sharp	LH5101	
2114	Sharp	LH5114H	
♦ 2114	Ideal Semi	ISI72114	
2117	Krueger	4116-120	
		4116-150	
		4116-200	
2141	AMD	AM21L41	
2147	Cypress	CY2147	
		CY7C147	
2148	AMD	AM2148	
	Cypress	CY21L48	
		CY2148	
2149	Cypress	CY21L49	
		CY2149	
	Krueger	**2149-35**	(3663)
		2149-45	
		2149-55	
		2149-70	(3663)
22V10	Cypress	PALC22V10	
2316	Hughes	H23C16	
♦ 2316	Ideal Semi	ISI72316	
27C010	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC541000	
		TC571000	
27C020	TI	TMS27C020	
27C040	AMD	AM27C040	
	TI	TMS27C040	
		TMS27PC040	
	Toshiba	TC574000	
27C100	Toshiba	TC571001	
27C128	TI	TMS27C128	
		TMS27PC128	
	Waferscale	WS27C128	
27C210	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC57H1024	
		TC571024	
27C220	AMD	AM27C2048	
27C240	Toshiba	TC574096	
		TC574200	
27C256	AMD	AM27C256	
	OKI	MSM27C256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
		TC57256	
	Waferscale	WS27C256	
27C400	AMD	AM27C400	
27C512	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC54512	
		TC57512	
27C64	Philips	27C64-15	
27F256	Toshiba	TC58257	
27010	Catalyst Semi	CAT27010	
	OKI	MSM271000	
	Waferscale	WS27C010	
2704	Hughes	H1831	
		H1832	
27128	AMD	AM27128	
	OKI	MSM27128	
2716	Hughes	H23C16	
♦ 2716	Ideal Semi	ISI72716	
27210	Catalyst Semi	CAT27C210	
	OKI	MSM27C1024	
		MSM271024	
	Waferscale	WS27C210	
27256	Cypress	CY7C274	
	OKI	MSM27256	
	TI	TMS27C256	
		TMS27PC256	
27512	Cypress	CY7C286	
	OKI	MSM27512	
	Waferscale	WS27C512	
2764	Cypress	CY7C266	
	OKI	MSM2764	
28F010	AMD	AM28F010	
		AM28F010A	
	Hitachi	HN28F101	
	Mitsubishi	M5M28F101	
	OKI	MSM28F101	
	TI	TMS29F010	
28F020	AMD	AM28F020	
		AM28F020A	
	Catalyst Semi	CAT28F020	
28F256	TI	TMS29F256	
		TMS29F258	
		TMS29F259	
	Toshiba	TC58257	
28F256A	AMD	AM28F256	
28F512	AMD	AM28F512	
	Catalyst Semi	CAT28F512	
	TI	TMS29F512	
2816	Catalyst Semi	CAT28C16	
	SEEQ	52B13	
2817	Catalyst Semi	CAT28C17	
	SEEQ	2817	
2864	Catalyst Semi	CAT28C64	
	NEC	μPD28C64	
	OKI	MSM28C64	
	SEEQ	52B33	
♦ 3601	Lansdale	HL7610	
♦ 3602	Lansdale	HL7620	
♦ 3604	Lansdale	HL7640	
♦ 3605	Lansdale	HL7642	
♦ 3621	Lansdale	HL7611	
♦ 3622	Lansdale	HL7621	
♦ 3624	Lansdale	HL7641	
		HL7643	
♦ 3628	Lansdale	HL7681	
♦ 3632	Lansdale	HL76321	
♦ 3636	Lansdale	HL76161	
386DX-33	AMD	AM386DXL-33	
386SX-25	AMD	AM386SXL-25	
386SX-33	AMD	AM386SXL-33	
486DX-33	AMD	AM486DX-33	
486DX2-50	AMD	AM486DX2-50	
5C031	Altera	EP310	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
5C032	AMD	PAL16L8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
	Altera	EP320	
	Cypress	PALC16L8	
		PALC16R4	
		PALC16R6	
		PALC16R8	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
	National	GAL16V8	
		PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16C1	
		PAL16H2	
		PAL16L2	
		PAL16L6	
		PAL16L8	
		PAL16RA8	
		PAL16R4	
		PAL16R6	
		PAL16R8	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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C060	Altera	EP600	
		EP610	
		EP630	
C090	Altera	EP900	
		EP910	
C180	Altera	EP1800	
1C66	Cypress	CY7C167	
1C66	Rochester	61CD16	
1C67	Cypress	CY7C167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
1C68	Cypress	CY7C168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
1C98	Toshiba	TC55416	
116	Sharp	LH5116	
1256	Sharp	LH52258	
	Toshiba	TC55328	
1256SL	Sharp	LH52250AL	
	Toshiba	TC55257	
1258	Sharp	LH52252	
	Toshiba	TC55464	
164	Sharp	LH5168	
	Toshiba	TC5588	
164SL	Toshiba	TC5563	
C196	Hitachi	HD647180	
C286	Harris	80C286	
	Krueger	80C286	
C31BH	**Philips**	**SC80C31B**	**(3707)**
C32	**Siemens**	**SABC501-L**	**(3767)**
C32FA	**Philips**	**P80C32**	**(3708)**
C48	Hitachi	HD6305	
C49	Hitachi	HD6305	
C51	Hitachi	HD6301	
		HD647180	
C86	Harris	80C86	
C88	Harris	80C88	
0186	Krueger	80186	
286	Harris	80C286	
	Krueger	80286	
31	SMC	COM20051	
31AH	Philips	SCN8031H	
32	SMC	COM20051	
32AH	Philips	SCN8032H	
35	Ideal Semi	ISI78035	
386SL	Krueger	80386SL	
39L	Philips	SCN8039H	
40AHL	Philips	SCN8040H	
48	Ideal Semi	ISI78048	
49AH	Philips	SCN8049H	
50AH	Philips	SCN8050H	
51AH	Philips	SCN8051H	
80A	Ideal Semi	ISI78080A	
	Lansdale	**IL8080A**	**(3664)**
85AH	OKI	MSM80C85A	
86	OKI	MSM80C86A	
88	OKI	MSM80C88A	
96	Hitachi	HD647180	
C28	LogicDev	L6116	
C28	Rochester	68CE16	
55H	OKI	MSM81C55	
56H	OKI	MSM81C56	
C224	Lattice	GAL22V10	
C37	Samsung	KS82C37	
C54	Harris	82C54	
	Samsung	KS82C54	
C55	Harris	82C55	
	Samsung	KS82C55	
C57	Unitrode	UC2847	
C59	Harris	82C59	
	Samsung	KS82C59	
C84	Harris	82C84	
	Samsung	KS82C84	
C88	Harris	82C88	
	Samsung	KS82C88	
005	SEEQ	82005	
025	SEEQ	82025	
05	Ideal Semi	ISI78205	
12	Hughes	H1852	
	OKI	MSM82C12	
12	Ideal Semi	ISI78212	
	Lansdale	**IL8212**	**(3664)**
14	Ideal Semi	ISI78214	
	Lansdale	**IL8214**	**(3664)**

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Manufacturer Device	Replacement Source	Device	IC Master Page
8216	Motorola	MC8T26	
♦ 8216	Ideal Semi	ISI78216	
	Lansdale	**IL8216**	**(3664)**
♦ 8218	Ideal Semi	ISI78218	
♦ 8219	Ideal Semi	ISI78219	
♦ 8224	Ideal Semi	ISI78224	
	Lansdale	**IL8224**	**(3664)**
8226	Motorola	MC8T28	
♦ 8226	Ideal Semi	ISI8226	
	Lansdale	**IL8226**	**(3664)**
♦ 8228	Ideal Semi	ISI78228	
	Lansdale	**IL8228**	**(3664)**
82288	UMC	UM82C288	
8237	OKI	MSM82C37	
♦ 8238	Ideal Semi	ISI78238	
♦ 8243	Ideal Semi	ISI78243	
82501	SMC	COM82C501	
8251	SMC	COM8251	
♦ 8251	Ideal Semi	ISI8251	
8251A	OKI	MSM82C51A	
8253	OKI	MSM82C53	
8255	Samsung	KS82C55	
8255A	Ideal Semi	ISI78255A	
	OKI	MSM82C55A	
82586	AT&T	T7231	
	Krueger	82586	
	SMC	COM82586	
8259A	OKI	MSM82C59A	
8272	Krueger	765	
8272A	Zilog	Z0765A	
82720	SMC	CRT7220	
8275	SMC	CRT5037	
♦ 8282	Ideal Semi	ISI8282	
	Lansdale	**IL8282**	**(3664)**
♦ 8283	Ideal Semi	ISI8283	
	Lansdale	**IL8283**	**(3664)**
♦ 8284	Ideal Semi	ISI8284	
8284A	OKI	MSM82C84A	
♦ 8284A	Lansdale	IL8284A	
♦ 8286	Ideal Semi	ISI8286	
	Lansdale	**IL8286**	**(3664)**
♦ 8287	Ideal Semi	ISI8287	
	Lansdale	**IL8287**	**(3664)**
8288	OKI	MSM82C88	
	Samsung	KS82C88	
♦ 8288	Lansdale	IL8288	
♦ 8289	**Lansdale**	**IL8289**	**(3664)**
83C51FA	**Philips**	**P80C52**	**(3708)**
85C060	AMD	PALCE20RA10	
		PALCE610	
	Cypress	PLDC20RA10	
	Lattice	GAL20RA10	
	National	GAL20RA10	
		PAL20RA10	
	TI	EP330	
		EP610	
		EP630	
85C090	TI	EP910	
85C22V10	AMD	PALCE22V10	
		PAL22V10	
	Cypress	PALC22V10	
		PAL22VP10	
		PAL22V10	
	Lattice	GAL22V10	
	National	GAL22VV10	
		PAL20L10	
	TI	TIBPAL22VP10	
		TIBPAL22V10	
85C220	AMD	PALCE16V8	
		PAL16L8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
	Altera	EP330	
	Cypress	PALC16L8	
		PALC16R4	
		PALC16R6	
		PALC16R8	
		PLDC18G8	
	Lattice	GAL16V8	
		GAL18V10	
	National	GAL16V8	
		PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16C1	
		PAL16H2	
		PAL16L2	
		PAL16L6	
		PAL16L8	

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Manufacturer Device	Replacement Source	Device	IC Master Page
85C220	National		(Cont'd)
		PAL16R4	
		PAL16R6	
		PAL16R8	
		PAL20C1	
	Philips	PLHS16L8	
		PLUS16L8	
		PLUS16R4	
		PLUS16R6	
		PLUS16R8	
	TI	EP330	
		EP610	
		PAL16L8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
		TIBPALR19L8	
		TIBPALR19R4	
		TIBPALR19R6	
		TIBPALR19R8	
		TIBPAL16L8	
		TIBPAL16R4	
		TIBPAL16R6	
		TIBPAL16R8	
85C224	AMD	PALCE20V8	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	Cypress	PLDC20G10	
	Lattice	GAL20V8	
	National	GAL20V8	
		GAL22V10	
		PAL12L10	
		PAL14L8	
		PAL18L4	
		PAL20C1	
		PAL20L2	
		PAL20L8	
		PAL20P8	
		PAL20RP4	
		PAL20RP6	
		PAL20RP8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	Philips	PLUS20L8	
		PLUS20R4	
		PLUS20R6	
		PLUS20R8	
	TI	TIBPAL20L8	
		TIBPAL20R4	
		TIBPAL20R6	
		TIBPAL20R8	
85C508	AMD	PAL16L8	
		PAL20L8	
	National	PAL16L8	
	Philips	PLUS16L8	
		PLUS20L8	
	TI	TIBPAD16N8	
		TIBPAD18N8	
		TIBPAL16L8	
		TIBPAL20L8	
8708	Hughes	H1833	
		H1834	
8755	OKI	MSM87C55A	

International CMOS Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
PEEL153	**American Micro**	**PEEL153**	**(3503)**
	Lattice	GAL16V8	
		GAL18V10	
♦ PEEL153	AMD	PAL16C1	
	American Micro	**PEEL153**	**(3503)**
	Philips	PLS153	
PEEL173	American Micro	PEEL173	
♦ PEEL173	AMD	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
♦ PEEL173	American Micro	PEEL173	
	National	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ PEEL173	National		(Cont'd)
		PAL20L2	
		PAL20L8	
♦ PEEL173	Philips	PLS173	
	TI	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
PEEL18CV8	AMD	PALCE16V8	
		PALC16L8	
		PALC16R4	
		PALC16R6	
		PALC16R8	
		PALC18U8	
		PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16HD8	
		PAL16H2	
		PAL16LD8	
		PAL16L2	
		PAL16L8	
		PAL16RP4	
		PAL16RP6	
		PAL16RP8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
		PAL18P8	
	Altera	EP310	
		EP320	
		EP330	
	American Micro	**PEEL18CV8**	**(3503)**
	Cypress	PALC16L8	
		PALC16R4	
		PALC16R6	
		PALC16R8	
	Intel	5C031	
		5C032	
	Lattice	GAL16V8	
		GAL18V10	
	National	GAL16V8	
		PAL16L8	
		PAL16RP4	
		PAL16RP6	
		PAL16RP8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
		PAL18P8	
	Philips	PLHS18P8	
	Ricoh	EPL12P6	
		EPL14P4	
		EPL16P2	
		EPL16P8	
		EPL16RP4	
		EPL16RP6	
		EPL16RP8	
		EPL204	
		EP10P8	
	SGS-Thomson	GAL16V8	
	TI	PAL16L8	
		PAL16RP4	
		PAL16RP6	
		PAL16RP8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
		PAL18P8	
PEEL20CG10	AMD	PALCE20V8	
		PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	American Micro	**PEEL20CG10**	**(3503)**
	Cypress	PALC22G10	
	Lattice	GAL20V8	
		GAL22V10	

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♦ The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
PEEL20CG10			(Cont'd)
	National	GAL20V8	
		PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	SGS-Thomson	GAL20V8	
	TI	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
PEEL22CV10	AMD	PALCE22V10	
		PALC20L8	
		PALC20R4	
		PALC20R6	
		PALC20R8	
	ATMEL	AT22V10	
	Cypress	PALC22V10	
	Lattice	GAL20V8	
		GAL22V10	
PEEL22CV10A	Philips	PLS22V10A	
PEEL22CV10Z	**American Micro**	**PEEL22CV10Z**	**(3502)**
PEEL253	**American Micro**	**PEEL153**	**(3503)**
		PEEL253	**(3503)**
	Lattice	GAL16V8	
		GAL18V10	
♦ PEEL253	**American Micro**	**PEEL253**	**(3503)**
	Philips	PLS153	
PEEL273	American Micro	PEEL173	
		PEEL273	**(3503)**
♦ PEEL273	AMD	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L10	
		PAL20L2	
		PAL20L8	
♦ PEEL273	**American Micro**	**PEEL273**	**(3503)**
	National	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
♦ PEEL273	Philips	PLS173	
	TI	PAL12L10	
		PAL14L4	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
♦ 27CX010	AMD	27H010	
♦ 27CX010-45	AMD	27H010C-45	
♦ 27CX010-55	AMD	27H010C-55	
♦ 27CX010-70	AMD	27H010C-70	
27CX256	Cypress	CY7C274	
♦ 27CX256-35	AMD	27H256-35	
♦ 27CX256-45	AMD	27H256-45	
♦ 27CX256-55	AMD	27H256-55	
27CX321	Waferscale	WS57C43	
♦ 27CX321	AMD	AM27S43	
		63S381	
♦ 27CX321	Fujitsu	MB7142	
	Harris	HM76321	
	National	DM87S321	
	Philips	N82HS321	
	Waferscale	WS57C43	
♦ 27CX321-40	AMD	AM27S43A	
♦ 27CX321C-35	AMD	63S381A	
	Philips	N82HS321A	
	Waferscale	WS57C43B-35D	
		WS57C43B-35T	
♦ 27CX321C-45	AMD	AM27S431N	
		63S3281	
♦ 27CX321C-45	Fujitsu	MB7142H1	
	Harris	HM76321A-5	
	National	DM87S321	
	Philips	N82HS3212-55DC	
	Waferscale	WS57C43B-45D	
		WS57C43B-45T	
27CX322	Waferscale	WS57C43	
♦ 27CX322	National	DM87S421	
	Raytheon	R2971	
♦ 27CX322C-45	National	DM87S421	
	Raytheon	R2971S	
♦ 27CX624C-40	ATMEL	AT27HC642-40DC	
	Cypress	CY7C261-40WC	
		CY7C263-40WC	
♦ 27CX624C-40	National	93Z667C-40	
♦ 27CX624C-55	ATMEL	AT27HC642-55DC	
	Cypress	CY7C261-55WC	
		CY7C263-55WC	
♦ 27CX624C-55	National	93Z667C-55	
	Raytheon	39VP865S	
27CX641	Waferscale	WS57C49	
♦ 27CX641	AMD	AM27S49	
	ATMEL	AT27HC641	
	Cypress	CY7C264	
	Fujitsu	MB7144	
	GoldStar	GM57HC64	
	Harris	HM76641	
	National	93Z565	
	Philips	N82HS641	
		27HC641	
♦ 27CX641	Raytheon	39VP864	
	Waferscale	WS57C49	
♦ 27CX641C-40	ATMEL	AT27HC641-40DC	
	Cypress	CY7C264-40WC	
	Fujitsu	MB7144H	
	Waferscale	WS57C49B-40D	
		WS57C49B-40T	
♦ 27CX641C-45	AMD	AM27S49AC	
	ATMEL	AT27HC641-45DC	
	Cypress	CY7C264-45WC	
	Fujitsu	MB7144Y	
	GoldStar	GM57HC64-45	
	Harris	HM76641A-5	
	National	93Z565AC	
	Philips	N82HS641AF	
		N82HS641AN	
♦ 27CX641C-45	Waferscale	WS57C49B-45D	
		WS57C49B-45T	
♦ 27CX641C-55	AMD	AM27S49C	
	ATMEL	AT27HC641-55DC	
	Cypress	CY7C264-55WC	
	GoldStar	GM57HC64-55	
	Harris	27CX641C-55	
	National	93Z565C	
	Philips	N82HS641FN	
		N82HS641N	
		27HC641-55	
♦ 27CX641C-55	Raytheon	39VP864D	
	Waferscale	WS57C49B-55D	
		WS57C49B-55T	
27CX642	Waferscale	WS57C49	
♦ 27CX642	ATMEL	AT27HC642	
	Cypress	CY7C261	
		CY7C263	
♦ 27CX642	National	93Z667	
	Raytheon	39VP865	
♦ 27CX642C-45	ATMEL	AT27HC642-45DC	
	Cypress	CY7C261-45WC	
		CY7C263-45WC	
♦ 27CX642C-45	National	93Z667C-45	
93CX46	EXEL	XL93C46	
		XL93LC46	
93CX56	EXEL	XL93C56	
		XL93LC56	
♦ 93CX56	Catalyst Semi	CAT33C102	
93CX66	EXEL	XL93LC66	
♦ 93CX66	**Catalyst Semi**	**CAT33C104**	**(3565)**
93C46	**Catalyst Semi**	**CAT93C46**	**(3565)**
	EXEL	XL93C46	
		XL93LC46	
	OKI	MSM16811	
♦ 93C46	**Catalyst Semi**	**CAT93C46**	**(3565)**
	EXEL	XLI93C46	
		XLS93C46	
♦ 93C46	Hyundai	HY93C46	
	National	NMC93C46	
		NMC9346	
♦ 93C46	NCR	NCR59308	
	OKI	MSM16811	
	ROHM	BR93C46	
	Samsung	KM93C46	
	SGS-Thomson	TS93C46	
	Sierra	93C46	
93C46A	National	NMC9346MN	
93C46C	National	NMC9346MN	
♦ 93C46P	**Catalyst Semi**	**CAT93C46A**	**(3565)**
		CAT93C46P	
♦ 93C46P	EXEL	XLS93C46P	
	Hyundai	HY93C46S	
	National	NMC93C46N	
		NMC9346N	
♦ 93C46P	NCR	NCR59308	
	OKI	MSM16811	
	ROHM	BR93C46P	
	Samsung	KM93C46	
	SGS-Thomson	93C46A	
	Sierra	SC2011	
♦ 93C46S	Hyundai	HY93C46J	
	Samsung	KM93C46G	
93C56	EXEL	XL93C56	
		XL93LC56	
♦ 93C56	Catalyst Semi	CAT35C56	
	National	NMC93C56	
♦ 93C56A	EXEL	XL93C56	
93C66	EXEL	XL93C66	
		XL93LC66	
♦ 93C66	**Catalyst Semi**	**CAT35C104**	**(3565)**
	National	NMC93C66	
♦ 93C66A	EXEL	XL93C66	

International Microcircuits

Manufacturer Device	Replacement Source	Device	IC Master Page
IMIMPY12	LogicDev	LMU12	
IMI145145	Motorola	MC145145	
IMI145146	Motorola	MC145146	
IMI145151	Motorola	MC145151	
IMI145152	Motorola	MC145152	
IMI145155	Motorola	MC145155	
IMI145156	Motorola	MC145156	
IMI145157	Motorola	MC145157	
IMI145158	Motorola	MC145158	
IMI45106	Motorola	MC145106	

Interpoint

Manufacturer Device	Replacement Source	Device	IC Master Page
FM704	Adv Analog	AFM704	
MFLHP2805	Adv Analog	AFL2805	
MFW2805	Adv Analog	AFW2805	
MFW2812	Adv Analog	AFW2812	
MFW2815	Adv Analog	AFW2815	
MHE2805	Adv Analog	AHE2805	
MHE2815	Adv Analog	AHE2815	
MHF2805	Adv Analog	AHF2805	
MHF2812	Adv Analog	AHF2812	
MHF2815	Adv Analog	AHF2815	
MHO2805	Adv Analog	AHE2805	
MHO2815	Adv Analog	AHE2815	
MHO28515	Adv Analog	ATO2815	
MLP2805	Adv Analog	ALP2805	
MLP2812	Adv Analog	ALP2812	
MLP2815	Adv Analog	ALP2815	
MSF461	Adv Analog	ASF461	
MSR2805	Adv Analog	ASR2805	
MSR2812	Adv Analog	ASR2812	
MSR2815	Adv Analog	ASR2815	
MTO2812	Adv Analog	ATO2812	
MTO2815	Adv Analog	ATO2815	
MTR2805	Adv Analog	ATR2805	
MTR2812	Adv Analog	ATR2812	
MTR28515	Adv Analog	ATR2815	
MTW2805	Adv Analog	ATW2805	
MTW2815	Adv Analog	ATW2815	

IXYS

Manufacturer Device	Replacement Source	Device	IC Master Page
IXLD1427	Micrel	MIC1427	
IXLD1428	Micrel	MIC1428	
IXLD426	**Micrel**	**MIC426**	**(3688)**
IXLD427	Micrel	MIC427	
IXLD428	Micrel	MIC428	
IXLD4420	**Micrel**	**MIC4420**	**(3688)**
IXLD4424	Micrel	MIC4424	
IXLD4425	Micrel	MIC4425	
IXLD4426	**Micrel**	**MIC4426**	**(3**
IXLD4427	Micrel	MIC4427	
IXLD4428	Micrel	MIC4428	
IXLD4429	Micrel	MIC4429	
IXPD631	Micrel	MIC631	

Krueger Company

Manufacturer Device	Replacement Source	Device	IC Master Page
LCD1600	S-MOS	SED1600	
Z80CPU	NEC	D780	
	SGS-Thomson	MK3880	
		Z80CPU	
	Sharp	LH0080	
	Zilog	Z80CPU	
		Z8400	
Z80CTC	SGS-Thomson	MK3882	
		Z80CTC	
	Sharp	LH0082	
	Zilog	Z80CTC	
		Z8430	
Z80DART	SGS-Thomson	MKDART	
		Z80DART	
	Sharp	LH0088	
	Zilog	Z80DART	
		Z8470	
Z80DMA	SGS-Thomson	MK3883	
		Z80DMA	
	Sharp	LH0083	
	Zilog	Z80DMA	
		Z8410	
Z80PIO	SGS-Thomson	MK3881	
		Z80PIO	
	Sharp	LH0081	
	Zilog	Z80PIO	
		Z8420	
Z80SIO/0	SGS-Thomson	MK3887	
		Z80SIO/0	
	Sharp	LH0084	
	Zilog	Z80SIO/0	
		Z8440	
Z80SIO/1	SGS-Thomson	MK3885	
		Z80SIO/1	
	Sharp	LH0085	
	Zilog	Z80SIO/1	
		Z8441	
Z80SIO/2	SGS-Thomson	MK3887	
		Z80SIO/2	
	Sharp	LH0086	
	Zilog	Z80SIO/2	
		Z8442	
Z80SIO/9	SGS-Thomson	Z80SIO/9	
	Sharp	ZH0087	
	Zilog	Z80SIO/9	
		Z8444	
100422	Fujitsu	100422	
	Hitachi	100422	
	Motorola	100422	
100474	Fujitsu	100474	
	Hitachi	100474	
	Motorola	100474	
10415	Fujitsu	10415	
	Motorola	10415	
10422	Hitachi	10422	
	Motorola	10422	
10474	Fujitsu	10474	
	Hitachi	10474	
	Motorola	10474	
146818	Hitachi	146818	
	Motorola	146818	
16450	National	NS16450	
	UMC	UM82450	
1933	Western	WD1933	
21C14-150	Allegro Micro	21C14	
	American Micro	S5114	
	Fujitsu	MB8414	
	Harris	5114	
		6514	
	Hitachi	4334	
	Krueger	21C14-200	
		21C14-450	
	Marconi	5114	
	National	NMC2114	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Krueger Company (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
21C14-150			(Cont'd)
	OKI	MSM5114	
	Rockwell	6514	
	S-MOS	SRM2114	
	SGS-Thomson	ETC2114	
		IMS1223	
	Sharp	LH5114	
	Toshiba	TC5514	
	UMC	UM6114	
21C14-200	Allegro Micro	21C14	
	American Micro	S5114	
	Fujitsu	MB8414	
	Harris	5114	
		6514	
	Hitachi	4334	
	Krueger	21C14-150	
		21C14-200	
		21C14-450	
	Marconi	5114	
	National	NMC2114	
	OKI	MSM5114	
	Rockwell	6514	
	S-MOS	SRM2114	
	SGS-Thomson	ETC2114	
		IMS1223	
	Sharp	LH5114	
	Toshiba	TC5514	
	UMC	UM6114	
21C14-450	Allegro Micro	21C14	
	American Micro	S5114	
	Fujitsu	MB8414	
	Harris	5114	
		6514	
	Hitachi	4334	
	Krueger	21C14-150	
		21C14-200	
		21C14-450	
	Marconi	5114	
	National	NMC2114	
	OKI	MSM5114	
	Rockwell	6514	
	S-MOS	SRM2114	
	SGS-Thomson	ETC2114	
		IMS1223	
	Sharp	LH5114	
	Toshiba	TC5514	
	UMC	UM6114	
2114-150	AMD	AM9114	
	Fujitsu	MB811414	
	Hitachi	HM472114	
	Intel	D2114U00	
	Krueger	**2114-200**	**(3663)**
		2114-450	**(3663)**
	Mitsubishi	M5L2114	
	Motorola	MCM2114	
	National	F21144	
		MM21144	
	OKI	MSM2114	
	Panasonic	MN2114	
	SGS-Thomson	ET2114	
	Sharp	LH21144	
	TI	TMS2114	
		TMS4045A	
	Toshiba	TMM2114A	
2114-200	AMD	AM9114	
	Fujitsu	MB8114	
	Hitachi	HM472114	
	Intel	D2114	
	Krueger	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
	Mitsubishi	M5L2114	
	Motorola	MCM2114	
	National	F2114	
		MM2114	
	OKI	MSM2114	
	Panasonic	MN2114	
	SGS-Thomson	ET2114	
	Sharp	LH2114	
	TI	TMS2114	
		TMS4045	
	Toshiba	TMM2114A	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
2114-450	AMD	AM9114	
	Fujitsu	MB811414	
	Hitachi	HM472114	
	Intel	D2114U00	
	Krueger	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
	Mitsubishi	M5L2114	
	Motorola	MCM2114	
	National	F21144	
		MM21144	
	OKI	MSM2114	
	Panasonic	MN2114	
	SGS-Thomson	ET2114	
	Sharp	LH21144	
	TI	TMS2114	
		TMS4045A	
	Toshiba	TMM2114A	
2128-100	AMD	AM9128	
	Fujitsu	MB8128	
	Krueger	**2128-120**	**(3663)**
	Mitsubishi	M58725	
	NEC	µPD4016	
	OKI	MSM2128	
	SGS-Thomson	MK4802	
	TI	TMS4016	
	Toshiba	TMM2016	
2128-120	AMD	AM9128	
	Fujitsu	MB8128	
	Krueger	**2128-100**	**(3663)**
	Mitsubishi	M58725	
	NEC	µPD4016	
	OKI	MSM2128	
	SGS-Thomson	MK4802	
	TI	TMS4016	
	Toshiba	TMM2016	
2147-35	AMD	AM2147	
		AM9147	
	Cypress	CY2147	
		CY7C147	
	Fujitsu	MBM2147	
		MBM8147	
	Hitachi	HM6147	
	Intel	D2147	
	Krueger	**2147-45**	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	National	MM2147	
		NMC2147	
	NEC	µPD2147	
	SGS-Thomson	ET2147	
2147-45	AMD	AM2147	
		AM9147	
	Cypress	CY2147	
		CY7C147	
	Fujitsu	MBM2147	
		MBM8147	
	Hitachi	HM6147	
	Intel	D2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	National	MM2147	
		NMC2147	
	NEC	µPD2147	
	SGS-Thomson	ET2147	
2147-55	AMD	AM2147	
		AM9147	
	Cypress	CY2147	
		CY7C147	
	Fujitsu	MBM2147	
		MBM8147	
	Hitachi	HM6147	
	Intel	D2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	National	MM2147	
		NMC2147	
	NEC	µPD2147	
	SGS-Thomson	ET2147	
2147-70	AMD	AM2147	
		AM9147	
	Cypress	CY2147	
		CY7C147	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
2147-70			(Cont'd)
	Fujitsu	MBM2147	
		MBM8147	
	Hitachi	HM6147	
	Intel	D2147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
	National	MM2147	
		NMC2147	
	NEC	µPD2147	
	SGS-Thomson	ET2147	
2148-35		SSM2148	
	AMD	AM2148	
		AM9148	
	Cypress	CY7C148	
		CY7C2148	
	GoldStar	76C48	
	Hitachi	HM6148	
	Intel	D2148	
	Krueger	**2148-45**	**(3663)**
		2148-55	
		2148-70	**(3663)**
	National	MM2148	
	SGS-Thomson	ET2148	
	UMC	UM2148	
2148-45		SSM2148	
	AMD	AM2148	
		AM9148	
	Cypress	CY7C148	
		CY7C2148	
	GoldStar	76C48	
	Hitachi	HM6148	
	Intel	D2148	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
	National	MM2148	
	SGS-Thomson	ET2148	
	UMC	UM2148	
2148-55		SSM2148	
	AMD	AM2148	
		AM9148	
	Cypress	CY7C148	
		CY7C2148	
	GoldStar	76C48	
	Hitachi	HM6148	
	Intel	D2148	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
	National	MM2148	
	SGS-Thomson	ET2148	
	UMC	UM2148	
2148-70		SSM2148	
	AMD	AM2148	
		AM9148	
	Cypress	CY7C148	
		CY7C2148	
	GoldStar	76C48	
	Hitachi	HM6148	
	Intel	D2148	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
	National	MM2148	
	SGS-Thomson	ET2148	
	UMC	UM2148	
2149-35		SSM2149	
	AMD	AM2149	
	Cypress	CY2149	
		CY7C2149	
	Intel	2149	
	Krueger	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
	NEC	µPD2149	
	TI	TMS2149	
	UMC	UM2149	
2149-45		SSM2149	
	AMD	AM2149	
	Cypress	CY2149	
		CY7C2149	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
2149-45			(Cont'd)
	Intel	2149	
	Krueger	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
	NEC	µPD2149	
	TI	TMS2149	
	UMC	UM2149	
2149-55		SSM2149	
	AMD	AM2149	
	Cypress	CY2149	
		CY7C2149	
	Intel	2149	
	Krueger	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
	NEC	µPD2149	
	TI	TMS2149	
	UMC	UM2149	
2149-70		SSM2149	
	AMD	AM2149	
	Cypress	CY2149	
		CY7C2149	
	Intel	2149	
	Krueger	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
	NEC	µPD2149	
	TI	TMS2149	
	UMC	UM2149	
2167-35		SSM6167	
	AMD	AM2167	
		AM9167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
		MB8167A	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Intel	51C67	
	Marconi	6167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
		M5M2167	
	Motorola	MCM2167	
	NEC	µPD2167	
		µPD4311	
	SGS-Thomson	IMS1400	
		IMS1403	
		MK41H67	
	Sharp	LH5167	
	UMC	UM6167	
	Vitelic	V61C67	
2167-45		SSM6167	
	AMD	AM2167	
		AM9167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
		MB8167A	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Intel	51C67	
	Marconi	6167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
		M5M2167	
	Motorola	MCM2167	
	NEC	µPD2167	
		µPD4311	
	SGS-Thomson	IMS1400	
		IMS1403	
		MK41H67	
	Sharp	LH5167	
	UMC	UM6167	
	Vitelic	V61C67	
2167-55		SSM6167	
	AMD	AM2167	
		AM9167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
		MB8167A	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Intel	51C67	
	Marconi	6167	
	MicronSemi	MT5C1601	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Krueger Company (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
2167-55			(Cont'd)
	Mitsubishi	M5M21C67	
		M5M2167	
	Motorola	MCM2167	
	NEC	µPD2167	
		µPD4311	
	SGS-Thomson		
		IMS1400	
		IMS1403	
		MK41H67	
	Sharp	LH5167	
	UMC	UM6167	
	Vitelic	V61C67	
2167-70		SSM6167	
	AMD	AM2167	
		AM9167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
		MB8167A	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Intel	51C67	
	Marconi	6167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
		M5M2167	
	Motorola	MCM2167	
	NEC	µPD2167	
		µPD4311	
	SGS-Thomson		
		IMS1400	
		IMS1403	
		MK41H67	
	Sharp	LH5167	
	UMC	UM6167	
	Vitelic	V61C67	
2168-20	AMD	AM2168	
		AM9168	
	Cypress	CY7C168	
	Fujitsu	MBM81C68	
		MBM8168	
	Hitachi	HM6168	
	IDT	IDT6168	
	Intel	51C68	
	Krueger	2168-25	
		2168-35	
		2168-45	
		2168-55	
	Lattice	SR16K4	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M2168	
	Mosel-Vitelic	MS6168	
		V61C68	
	Motorola	MCM2168	
		MCM6168	
	NEC	µPD4314	
	Performance	P4C168	
	Philips	2168	
	S-MOS	SRM2268	
	SGS-Thomson		
		IMS1420	
		IMS1423	
		MK41C68	
	Sony	CXK5416	
	Toshiba	TMM2068	
	UMC	UM6168	
	VLSI Tech	20C68	
2168-25	AMD	AM2168	
		AM9168	
	Cypress	CY7C168	
	Fujitsu	MBM81C68	
		MBM8168	
	Hitachi	HM6168	
	IDT	IDT6168	
	Intel	51C68	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	Lattice	SR16K4	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M2168	
	Mosel-Vitelic	MS6168	
		V61C68	
	Motorola	MCM2168	
		MCM6168	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
2168-25			(Cont'd)
	NEC	µPD4314	
	Performance	P4C168	
	Philips	2168	
	S-MOS	SRM2268	
	SGS-Thomson		
		IMS1420	
		IMS1423	
		MK41C68	
	Sony	CXK5416	
	Toshiba	TMM2068	
	UMC	UM6168	
	VLSI Tech	20C68	
2168-35	AMD	AM2168	
		AM9168	
	Cypress	CY7C168	
	Fujitsu	MBM81C68	
		MBM8168	
	Hitachi	HM6168	
	IDT	IDT6168	
	Intel	51C68	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	Lattice	SR16K4	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M2168	
	Mosel-Vitelic	MS6168	
		V61C68	
	Motorola	MCM2168	
		MCM6168	
	NEC	µPD4314	
	Performance	P4C168	
	Philips	2168	
	S-MOS	SRM2268	
	SGS-Thomson		
		IMS1420	
		IMS1423	
		MK41C68	
	Sony	CXK5416	
	Toshiba	TMM2068	
	UMC	UM6168	
	VLSI Tech	20C68	
2168-45	AMD	AM2168	
		AM9168	
	Cypress	CY7C168	
	Fujitsu	MBM81C68	
		MBM8168	
	Hitachi	HM6168	
	IDT	IDT6168	
	Intel	51C68	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	Lattice	SR16K4	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M2168	
	Mosel-Vitelic	MS6168	
		V61C68	
	Motorola	MCM2168	
		MCM6168	
	NEC	µPD4314	
	Performance	P4C168	
	Philips	2168	
	S-MOS	SRM2268	
	SGS-Thomson		
		IMS1420	
		IMS1423	
		MK41C68	
	Sony	CXK5416	
	Toshiba	TMM2068	
	UMC	UM6168	
	VLSI Tech	20C68	
2168-55	AMD	AM2168	
		AM9168	
	Cypress	CY7C168	
	Fujitsu	MBM81C68	
		MBM8168	
	Hitachi	HM6168	
	IDT	IDT6168	
	Intel	51C68	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
2168-55			(Cont'd)
	Lattice	SR16K4	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M2168	
	Mosel-Vitelic	MS6168	
		V61C68	
	Motorola	MCM2168	
		MCM6168	
	NEC	µPD4314	
	Performance	P4C168	
	Philips	2168	
	S-MOS	SRM2268	
	SGS-Thomson		
		IMS1420	
		IMS1423	
		MK41C68	
	Sony	CXK5416	
	Toshiba	TMM2068	
	UMC	UM6168	
	VLSI Tech	20C68	
2532-350	Hitachi	HN2532	
	Krueger	**2532-450**	**(3663)**
	SGS-Thomson		
		M2532F1	
	TI	TMS2532	
2532-450	Hitachi	HN462532	
	Krueger	**2532-350**	**(3663)**
	SGS-Thomson		
		M2532F1	
	TI	TMS2532	
2564-450	TI	TMS2564-45	
27C010	AMD	AM27C010	
	ATMEL	AT27C010	
	Fujitsu	MBM27C1001	
	Hitachi	HN27C010	
		HN27C301	
	Intel	D27C010	
	Mitsubishi	M5M27C101	
	National	NMC27C010	
	NEC	D27C1001	
	SGS-Thomson		
		27C1001	
	Sharp	LH571000	
	TI	TMS27C010	
	Toshiba	TC571000	
27C128-200	AMD	AM27C128	
	ATMEL	AT27C128	
	Fujitsu	MBM27C128	
	Hitachi	HN27C128	
	Krueger	27C128-250	
	Microchip	27C128	
	Mitsubishi	M5M27C128	
	National	NMC27C128	
	Philips	27C128	
	Sharp	LH57128	
	TI	TMS27C128	
	Toshiba	TC571000	
27C128-250	AMD	AM27C128	
	ATMEL	AT27C128	
	Fujitsu	MBM27C128	
	Hitachi	HN27C128	
	Krueger	27C128-200	
		27C128-250	
	Microchip	27C128	
	Mitsubishi	M5M27C128	
	National	NMC27C128	
	Philips	27C128	
	Sharp	LH57128	
	TI	TMS27C128	
	Toshiba	TC571000	
27C210	AMD	AM27C1024	
	ATMEL	AT27C1024	
	Catalyst Semi	CAT27C210	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	D27C210	
	Microchip	27C1024	
	National	NMC27C1024	
	NEC	µPD27C1024	
	OKI	MSM27C1024	
	Philips	27C210	
	SGS-Thomson		
		M27C1024	
	TI	TMS27C210	
27C256-150	AMD	AM27C256	
	ATMEL	AT27C256	
	Catalyst Semi	CAT27C256	
	Fujitsu	MBM27C256	
	Harris	27C256	
	Hitachi	HN27C256	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Maste Pag
27C256-150			(Cont'd
	Intel	D27C2566	
	Krueger	27C256-250	
	Microchip	27C256	
	Mitsubishi	M5M27C256	
	NEC	µPD27C256	
		NMC27C256	
	OKI	MSM27C256	
	Philips	27C256	
	Ricoh	RD27C256	
	S-MOS	SPM27C256	
	SEEQ	DQ27C256	
	SGS-Thomson		
		M27C256	
	Sharp	LH57256	
	TI	TMS27C256	
	Toshiba	TC57256	
	VLSI Tech	VT27C256	
	Waferscale	WS27C256	
27C256-200	AMD	AM27C256	
	ATMEL	AT27C256	
	Catalyst Semi	CAT27C256	
	Fujitsu	MBM27C256	
	Harris	27C256	
	Hitachi	HN27C256	
	Intel	D27C2566	
	Krueger	27C256-250	
	Microchip	27C256	
	Mitsubishi	M5M27C256	
	NEC	µPD27C256	
		NMC27C256	
	OKI	MSM27C256	
	Philips	27C256	
	Ricoh	RD27C256	
	S-MOS	SPM27C256	
	SEEQ	DQ27C256	
	SGS-Thomson		
		M27C256	
	Sharp	LH57256	
	TI	TMS27C256	
	Toshiba	TC57256	
	VLSI Tech	VT27C256	
	Waferscale	WS27C256	
27C256-250	AMD	AM27C256	
	ATMEL	AT27C256	
	Catalyst Semi	CAT27C256	
	Fujitsu	MBM27C256	
	Harris	27C256	
	Hitachi	HN27C256	
	Intel	D27C2566	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	Microchip	27C256	
	Mitsubishi	M5M27C256	
	NEC	µPD27C256	
		NMC27C256	
	OKI	MSM27C256	
	Philips	27C256	
	Ricoh	RD27C256	
	S-MOS	SPM27C256	
	SEEQ	DQ27C256	
	SGS-Thomson		
		M27C256	
	Sharp	LH57256	
	TI	TMS27C256	
	Toshiba	TC57256	
	VLSI Tech	VT27C256	
	Waferscale	WS27C256	
27C512-150	AMD	AM27C512	
	ATMEL	AT27C512	
	Fujitsu	MBM27C512	
	Hitachi	HN27C512	
	Intel	D27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	Microchip	27C512	
	Mitsubishi	M5M27C512	
	National	NMC27C512	
	NEC	µPD27C512	
	Ricoh	RD27C512	
	SGS-Thomson		
		TMS27C512	
	Toshiba	TC57512	
	VLSI Tech	VT27C512	
27C512-200	AMD	AM27C512	
	ATMEL	AT27C512	
	Fujitsu	MBM27C512	
	Hitachi	HN27C512	
	Intel	D27C512	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

rueger Company (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
7C512-200			(Cont'd)
	Krueger	27C512-150	
		27C512-250	
	Microchip	27C512	
	Mitsubishi	M5M27C512	
	National	NMC27C512	
	NEC	µPD27C512	
	Ricoh	RD27C512	
	SGS-Thomson	TMS27C512	
	Toshiba	TC57512	
	VLSI Tech	VT27C512	
7C512-250	AMD	AM27C512	
	ATMEL	AT27C512	
	Fujitsu	MBM27C512	
	Hitachi	HN27C512	
	Intel	D27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	Microchip	27C512	
	Mitsubishi	M5M27C512	
	National	NMC27C512	
	NEC	µPD27C512	
	Ricoh	RD27C512	
	SGS-Thomson	TMS27C512	
	Toshiba	TC57512	
	VLSI Tech	VT27C512	
7C64-200	AMD	AM27C64	
	ATMEL	AT27C64	
	Fujitsu	MBM27C64	
	Harris	27C64	
	Hitachi	HN27C64	
	Hyundai	HY27C64	
	Intel	D2764	
	Krueger	27C64-250	
	Microchip	27C64	
	National	NMC27C64	
	NEC	µPD27C64	
	OKI	MSM27C64	
	Philips	27C64	
	S-MOS	SPM27C64	
	SGS-Thomson	27C64	
	Sharp	LH5764	
	TI	TMS27C64	
	VLSI Tech	VT27C64	
	Waferscale	WS27C64	
7C64-250	AMD	AM27C64	
	ATMEL	AT27C64	
	Fujitsu	MBM27C64	
	Harris	27C64	
	Hitachi	HN27C64	
	Hyundai	HY27C64	
	Intel	D2764	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
	Microchip	27C64	
	National	NMC27C64	
	NEC	µPD27C64	
	OKI	MSM27C64	
	Philips	27C64	
	S-MOS	SPM27C64	
	SGS-Thomson	27C64	
	Sharp	LH5764	
	TI	TMS27C64	
	VLSI Tech	VT27C64	
	Waferscale	WS27C64	
7C64-300	AMD	AM27C64	
	ATMEL	AT27C64	
	Fujitsu	MBM27C64	
	Harris	27C64	
	Hitachi	HN27C64	
	Hyundai	HY27C64	
	Intel	D2764	
	Krueger	27C64-250	
	Microchip	27C64	
	National	NMC27C64	
	NEC	µPD27C64	
	OKI	MSM27C64	
	Philips	27C64	
	S-MOS	SPM27C64	
	SGS-Thomson	27C64	
	Sharp	LH5764	
	TI	TMS27C64	
	VLSI Tech	VT27C64	
	Waferscale	WS27C64	
			(Continued)
27128-200	AMD	AM27128	
	Fujitsu	MBM27128	
	Hitachi	HN27128	
	Intel	D27128	
	Krueger	**27128-250**	**(3663)**
		27128-300	**(3663)**
	National	MM27128	
		NMC27128	
	NEC	µPD27128	
	OKI	MSM27128	
	Philips	27128	
	SEEQ	DQ27128	
		DQ5143	
	SGS-Thomson	M27128	
	TI	TMS27128	
	Toshiba	TMM27128	
27128-250	AMD	AM27128	
	Fujitsu	MBM27128	
	Hitachi	HN27128	
	Intel	D27128	
	Krueger	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	National	MM27128	
		NMC27128	
	NEC	µPD27128	
	OKI	MSM27128	
	Philips	27128	
	SEEQ	DQ27128	
		DQ5143	
	SGS-Thomson	M27128	
	TI	TMS27128	
	Toshiba	TMM27128	
27128-300	AMD	AM27128	
	Fujitsu	MBM27128	
	Hitachi	HN27128	
	Intel	D27128	
	Krueger	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	National	MM27128	
		NMC27128	
	NEC	µPD27128	
	OKI	MSM27128	
	Philips	27128	
	SEEQ	DQ27128	
		DQ5143	
	SGS-Thomson	M27128	
	TI	TMS27128	
	Toshiba	TMM27128	
2716-350	AMD	AM2716	
	Hitachi	HN462716	
	Intel	D2716	
	Krueger	**2716-450**	**(3663)**
	Mitsubishi	M5L2716	
	Motorola	MCM2716	
	National	MM2716Q	
	NEC	D2716	
	OKI	MSM2716	
	Panasonic	MN2716	
	SGS-Thomson	ET2716	
		MK2716	
		M2716	
	TI	TMS2516	
	Toshiba	TMM323	
2716-450	AMD	AM2716	
	Hitachi	HN462716	
	Intel	D2716	
	Krueger	**2716-350**	**(3663)**
		2716-450	**(3663)**
	Mitsubishi	M5L2716	
	Motorola	MCM2716	
	National	MM2716Q	
	NEC	D2716	
	OKI	MSM2716	
	Panasonic	MN2716	
	SGS-Thomson	ET2716	
		MK2716	
		M2716	
	TI	TMS2516	
	Toshiba	TMM323	
2716T-350	**Krueger**	**2716T-450**	**(3663)**
	TI	TMS2716	
2716T-450	**Krueger**	**2716T-350**	**(3663)**
	TI	TMS2716	
27256-200	AMD	AM27256	
	Catalyst Semi	CAT27256	
			(Continued)
27256-200			(Cont'd)
	Fujitsu	MBM27256	
	Hitachi	HN27256	
	Intel	D27256	
	Krueger	**27256-250**	**(3663)**
		27256-300	**(3663)**
	Mitsubishi	M5M27256	
	OKI	MSM27256	
	SGS-Thomson	M27256	
	Toshiba	TMM27256	
27256-250	AMD	AM27256	
	Catalyst Semi	CAT27256	
	Fujitsu	MBM27256	
	Hitachi	HN27256	
	Intel	D27256	
	Krueger	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	Mitsubishi	M5M27256	
	OKI	MSM27256	
	SGS-Thomson	M27256	
	Toshiba	TMM27256	
27256-300	AMD	AM27256	
	Catalyst Semi	CAT27256	
	Fujitsu	MBM27256	
	Hitachi	HN27256	
	Intel	D27256	
	Krueger	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	Mitsubishi	M5M27256	
	OKI	MSM27256	
	SGS-Thomson	M27256	
	Toshiba	TMM27256	
2732-250	AMD	AM2732	
	Intel	D2732	
	Krueger	**2732-300**	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
	Mitsubishi	M5M2732	
	National	F2732	
		MM2732	
	OKI	MSM2732	
	Toshiba	TMM2732	
2732-300	AMD	AM2732	
	Intel	D2732	
	Krueger	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
		2732A-250	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
	Mitsubishi	M5M2732	
	National	F2732	
		MM2732	
	OKI	MSM2732	
	Toshiba	TMM2732	
2732-350	AMD	AM2732	
	Intel	D2732	
	Krueger	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
	Mitsubishi	M5M2732	
	National	F2732	
		MM2732	
	OKI	MSM2732	
	Toshiba	TMM2732	
2732-450	AMD	AM2732	
	Intel	D2732	
	Krueger	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
	Mitsubishi	M5M2732	
	National	F2732	
		MM2732	
	OKI	MSM2732	
	Toshiba	TMM2732	
2732A-250	AMD	AM2732A	
	Hitachi	HN482732A	
	Intel	D2732A	
	Krueger	**2732-300**	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
			(Continued)
2732A-250			(Cont'd)
	SGS-Thomson	M2732A	
	TI	TMS2732A	
2732A-300	AMD	AM2732A	
	Hitachi	HN482732A	
	Intel	D2732A	
	Krueger	**2732-300**	**(3663)**
		2732A-250	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
	SGS-Thomson	M2732A	
	TI	TMS2732A	
2732A-350	AMD	AM2732A	
	Hitachi	HN482732A	
	Intel	D2732A	
	Krueger	**2732-300**	**(3663)**
		2732A-250	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
	SGS-Thomson	M2732A	
	TI	TMS2732A	
2732A-450	AMD	AM2732A	
	Hitachi	HN482732A	
	Intel	D2732A	
	Krueger	**2732-300**	**(3663)**
		2732A-250	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
	SGS-Thomson	M2732A	
	TI	TMS2732A	
27512-200	AMD	AM27512	
	Catalyst Semi	CAT27512	
	Hitachi	HN27512	
	Intel	D27512	
	Krueger	**27512-250**	**(3663)**
	Mitsubishi	M5M27512	
	OKI	MSM27512	
	SGS-Thomson	M27512	
	Toshiba	TMM27512	
27512-250	AMD	AM27512	
	Catalyst Semi	CAT27512	
	Hitachi	HN27512	
	Intel	D27512	
	Krueger	**27512-200**	**(3663)**
		27512-250	**(3663)**
	Mitsubishi	M5M27512	
	OKI	MSM27512	
	SGS-Thomson	M27512	
	Toshiba	TMM27512	
2764-200	AMD	AM2764	
	Fujitsu	MBM2764	
	Hitachi	HN482764	
	Intel	D2764	
	Krueger	**2764-250**	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	Mitsubishi	M5L2764	
	National	NM2764	
	NEC	µPD2764	
	OKI	MSM2764	
	SEEQ	DQ2764	
		DQ5133	
	SGS-Thomson	MK2764	
		M2764	
	TI	TMS2764	
	Toshiba	TMM2764	
2764-250	AMD	AM2764	
	Fujitsu	MBM2764	
	Hitachi	HN482764	
	Intel	D2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	Mitsubishi	M5L2764	
	National	NM2764	
	NEC	µPD2764	
	OKI	MSM2764	
	SEEQ	DQ2764	
		DQ5133	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Krueger Company (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
2764-250			(Cont'd)
	SGS-Thomson	MK2764	
		M2764	
	TI	TMS2764	
	Toshiba	TMM2764	
2764-300	AMD	AM2764	
	Fujitsu	MBM2764	
	Hitachi	HN482764	
	Intel	D2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	Mitsubishi	M5L2764	
	National	NM2764	
	NEC	µPD2764	
	OKI	MSM2764	
	SEEQ	DQ2764	
		DQ5133	
	SGS-Thomson	MK2764	
		M2764	
	TI	TMS2764	
	Toshiba	TMM2764	
2764-450	AMD	AM2764	
	Fujitsu	MBM2764	
	Hitachi	HN482764	
	Intel	D2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	Mitsubishi	M5L2764	
	National	NM2764	
	NEC	µPD2764	
	OKI	MSM2764	
	SEEQ	DQ2764	
		DQ5133	
	SGS-Thomson	MK2764	
		M2764	
	TI	TMS2764	
	Toshiba	TMM2764	
2764A-200	AMD	AM2764A	
	Intel	D2764A	
	OKI	MSM2764A	
	SGS-Thomson	M2764A	
	Toshiba	TMM2764A	
2764A-300	AMD	AM2764A	
	Intel	D2764A	
	OKI	MSM2764A	
	SGS-Thomson	M2764A	
	Toshiba	TMM2764A	
2764A-450	AMD	AM2764A	
	Intel	D2764A	
	OKI	MSM2764A	
	SGS-Thomson	M2764A	
	Toshiba	TMM2764A	
37C65	Western	WD37C65	
4116-120	AMD	AM9016	
	Fujitsu	MB8116	
		MB8216	
	Hitachi	HM4716	
	Intel	2117	
	Krueger	4116-150	
		4116-200	
	Mitsubishi	M5M4116	
	National	F16K	
		F4116	
		MM5290	
	NEC	µPD416	
	OKI	MSM3716	
	Philips	2690	
	SGS-Thomson	MK4116	
	Siemens	HYB4116	
	TI	TMS4116	
4116-150	AMD	AM9016	
	Fujitsu	MB8116	
		MB8216	
	Hitachi	HM4716	
	Intel	2117	
	Krueger	4116-120	
		4116-150	
		4116-200	
	Mitsubishi	M5M4116	
	National	F16K	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
4116-150	National		(Cont'd)
		F4116	
		MM5290	
	NEC	µPD416	
	OKI	MSM3716	
	Philips	2690	
	SGS-Thomson	MK4116	
	Siemens	HYB4116	
	TI	TMS4116	
4116-200	AMD	AM9016	
	Fujitsu	MB8116	
		MB8216	
	Hitachi	HM4716	
	Intel	2117	
	Krueger	4116-120	
		4116-150	
		4116-200	
	Mitsubishi	M5M4116	
	National	F16K	
		F4116	
		MM5290	
	NEC	µPD416	
	OKI	MSM3716	
	Philips	2690	
	SGS-Thomson	MK4116	
	Siemens	HYB4116	
	TI	TMS4116	
4116S	Hitachi	HM4816	
	Intel	D2118	
	Motorola	MCM4517	
	National	MM5295	
	SGS-Thomson	MK4516	
41256-080	AMD	AM90C256	
	AT&T	M41256	
	Fujitsu	MB81256	
	GoldStar	GM71C256	
	Hitachi	HM50256	
		HM51258	
	Hyundai	HY51C256	
		HY53C256	
	Intel	P21256	
	Krueger	**41256-100**	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	MicronSemi	MT1259	
	Mitsubishi	M5M4256	
	Motorola	MCM6256	
	NEC	µPD41256	
	NMB	AAA2801	
	OKI	MSM37256	
	Panasonic	MN41256	
	Samsung	KM41256	
	Sanyo	LM33256	
	Sharp	LH21256	
	Siemens	HYB41256	
	TI	TMS41256	
	Toshiba	TMM41256	
	Vitelic	V53C256	
41256-100	AMD	AM90C256	
	AT&T	M41256	
	Fujitsu	MB81256	
	GoldStar	GM71C256	
	Hitachi	HM50256	
		HM51258	
	Hyundai	HY51C256	
		HY53C256	
	Intel	P21256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	MicronSemi	MT1259	
	Mitsubishi	M5M4256	
	Motorola	MCM6256	
	NEC	µPD41256	
	NMB	AAA2801	
	OKI	MSM37256	
	Panasonic	MN41256	
	Samsung	KM41256	
	Sanyo	LM33256	
	Sharp	LH21256	
	Siemens	HYB41256	
	TI	TMS41256	
	Toshiba	TMM41256	
	Vitelic	V53C256	
41256-120	AMD	AM90C256	
	AT&T	M41256	
	Fujitsu	MB81256	
	GoldStar	GM71C256	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
41256-120			(Cont'd)
	Hitachi	HM50256	
		HM51258	
	Hyundai	HY51C256	
		HY53C256	
	Intel	P21256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	MicronSemi	MT1259	
	Mitsubishi	M5M4256	
	Motorola	MCM6256	
	NEC	µPD41256	
	NMB	AAA2801	
	OKI	MSM37256	
	Panasonic	MN41256	
	Samsung	KM41256	
	Sanyo	LM33256	
	Sharp	LH21256	
	Siemens	HYB41256	
	TI	TMS41256	
	Toshiba	TMM41256	
	Vitelic	V53C256	
41256-150	AMD	AM90C256	
	AT&T	M41256	
	Fujitsu	MB81256	
	GoldStar	GM71C256	
	Hitachi	HM50256	
		HM51258	
	Hyundai	HY51C256	
		HY53C256	
	Intel	P21256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	MicronSemi	MT1259	
	Mitsubishi	M5M4256	
	Motorola	MCM6256	
	NEC	µPD41256	
	NMB	AAA2801	
	OKI	MSM37256	
	Panasonic	MN41256	
	Samsung	KM41256	
	Sanyo	LM33256	
	Sharp	LH21256	
	Siemens	HYB41256	
	TI	TMS41256	
	Toshiba	TMM41256	
	Vitelic	V53C256	
41416-100	Fujitsu	MB81416	
	Hitachi	HM48416	
	Mitsubishi	M5M4416	
	NEC	µPD41416	
	SGS-Thomson	IMS2620	
	TI	TMS4416	
41416-120	Fujitsu	MB81416	
	Hitachi	HM48416	
	Mitsubishi	M5M4416	
	NEC	µPD41416	
	SGS-Thomson	IMS2620	
	TI	TMS4416	
41416-150	Fujitsu	MB81416	
	Hitachi	HM48416	
	Mitsubishi	M5M4416	
	NEC	µPD41416	
	SGS-Thomson	IMS2620	
	TI	TMS4416	
41464-100	Fujitsu	MB81464	
	GoldStar	GM71C464	
	Hitachi	HM50464	
	Hyundai	HY51C464	
		HY51464	
		HY53C464	
	Intel	P21464	
	Krueger	**41464-120**	**(3663)**
		41464-150	**(3663)**
	MicronSemi	MT4067	
	Mitsubishi	M5M4464	
	Motorola	MCM41464	
	NEC	µPD41464	
	OKI	MSM41464	
	Panasonic	MN41464	
	Samsung	MN41464	
	Sharp	LH2464	
	TI	TMS4464	
	Toshiba	TMM41464	
	Vitelic	V53C464	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Mast
41464-120	Fujitsu	MB81464	
	GoldStar	GM71C464	
	Hitachi	HM50464	
	Hyundai	HY51C464	
		HY51464	
		HY53C464	
	Intel	P21464	
	Krueger	**41464-100**	**(3663**
		41464-120	**(3663**
		41464-150	**(3663**
	MicronSemi	MT4067	
	Mitsubishi	M5M4464	
	Motorola	MCM41464	
	NEC	µPD41464	
	OKI	MSM41464	
	Panasonic	MN41464	
	Samsung	MN41464	
	Sharp	LH2464	
	TI	TMS4464	
	Toshiba	TMM41464	
	Vitelic	V53C464	
41464-150	Fujitsu	MB81464	
	GoldStar	GM71C464	
	Hitachi	HM50464	
	Hyundai	HY51C464	
		HY51464	
		HY53C464	
	Intel	P21464	
	Krueger	**41464-100**	**(366**
		41464-120	**(366**
		41464-150	**(366**
	MicronSemi	MT4067	
	Mitsubishi	M5M4464	
	Motorola	MCM41464	
	NEC	µPD41464	
	OKI	MSM41464	
	Panasonic	MN41464	
	Samsung	MN41464	
	Sharp	LH2464	
	TI	TMS4464	
	Toshiba	TMM41464	
	Vitelic	V53C464	
4164-100	AMD	AM9064	
	Fujitsu	MB8264	
	Hitachi	HM4864	
	Hyundai	HY5164	
	IDT	7164	
	Intel	IMS2600	
	Krueger	**4164-120**	**(366**
		4164-150	**(366**
	MicronSemi	MT4264	
	Mitsubishi	M5K4164	
	Motorola	MCM6665	
	National	NMC3764	
	NEC	µPD4164	
	OKI	MSM3764	
	Panasonic	MN4164	
	Samsung	KM4164	
	Sanyo	LM3364	
	SGS-Thomson	IMS2600	
		MK4564	
	Sharp	LH2164	
	Siemens	HYB4164	
	TI	TMS4164	
	Toshiba	TMM4164	
	UMC	UM4164	
	Vitelic	V5264	
4164-120	AMD	AM9064	
	Fujitsu	MB8264	
	Hitachi	HM4864	
	Hyundai	HY5164	
	IDT	7164	
	Intel	IMS2600	
	Krueger	4164-100	
		4164-120	**(366**
		4164-150	**(366**
	MicronSemi	MT4264	
	Mitsubishi	M5K4164	
	Motorola	MCM6665	
	National	NMC3764	
	NEC	µPD4164	
	OKI	MSM3764	
	Panasonic	MN4164	
	Samsung	KM4164	
	Sanyo	LM3364	
	SGS-Thomson	IMS2600	
		MK4564	
	Sharp	LH2164	
	Siemens	HYB4164	
	TI	TMS4164	
	Toshiba	TMM4164	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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ufacturer ice	Replacement Source	Device	IC Master Page
64-120			(Cont'd)
	UMC	UM4164	
	Vitelic	V5264	
64-150	AMD	AM9064	
	Fujitsu	MB8264	
	Hitachi	HM4864	
	Hyundai	HY5164	
	IDT	7164	
	Intel	IMS2600	
	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
	MicronSemi	MT4264	
	Mitsubishi	M5K4164	
	Motorola	MCM6665	
	National	NMC3764	
	NEC	µPD4164	
	OKI	MSM3764	
	Panasonic	MN4164	
	Samsung	KM4164	
	Sanyo	LM3364	
	SGS-Thomson	IMS2600	
		MK4564	
	Sharp	LH2164	
	Siemens	HYB4164	
	TI	TMS4164	
	Toshiba	TMM4164	
	UMC	UM4164	
	Vitelic	V5264	
C22	Western	WD42C22	
100	Hitachi	HD44100	
61-100	Fujitsu	MB81461	
	Hitachi	HM53461	
	MicronSemi	MT42C4064	
	Mitsubishi	M5M4C264	
	NEC	µPD41264	
	TI	TMS4461	
	Vitelic	V53C261	
61-120	Fujitsu	MB81461	
	Hitachi	HM53461	
	MicronSemi	MT42C4064	
	Mitsubishi	M5M4C264	
	NEC	µPD41264	
	TI	TMS4461	
	Vitelic	V53C261	
61-150	Fujitsu	MB81461	
	Hitachi	HM53461	
	MicronSemi	MT42C4064	
	Mitsubishi	M5M4C264	
	NEC	µPD41264	
	TI	TMS4461	
	Vitelic	V53C261	
780	Hitachi	HD44780	
0	Brooktree	BT450	
3	Brooktree	BT453	
1	Brooktree	BT471	
5	Brooktree	BT475	
6	Brooktree	BT476	
7	Brooktree	BT477	
8	Brooktree	BT478	
C02	SGS-Thomson	MK48C02	
01	SGS-Thomson	MK4801	
C12	Western	WD50C12	
1000-100	Fujitsu	MB81C1000	
	Hitachi	HM511000	
	Hyundai	HY51C1000	
	Intel	P21010	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C1000	
		M5M41000	
	Motorola	MCM511000	
	NEC	µPD421000	
	NMB	AAA1M100	
		AAA1M200	
		AAA1M300	
	OKI	MSM511000	
	Sharp	LH611000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Toshiba	TC511000	
1000-70	Fujitsu	MB81C1000	
	Hitachi	HM511000	
	Hyundai	HY51C1000	
	Intel	P21010	
			(Continued)
511000-70			(Cont'd)
	Krueger	511000-100	
		511000-80	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C1000	
		M5M41000	
	Motorola	MCM511000	
	NEC	µPD421000	
	NMB	AAA1M100	
		AAA1M200	
		AAA1M300	
	OKI	MSM511000	
	Sharp	LH611000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Toshiba	TC511000	
511000-80	Fujitsu	MB81C1000	
	Hitachi	HM511000	
	Hyundai	HY51C1000	
	Intel	P21010	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C1000	
		M5M41000	
	Motorola	MCM511000	
	NEC	µPD421000	
	NMB	AAA1M100	
		AAA1M200	
		AAA1M300	
	OKI	MSM511000	
	Sharp	LH611000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Toshiba	TC511000	
514256-100	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	Hyundai	HY51C4256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44256	
	Motorola	MCM514256	
	NEC	µPD424256	
	NMB	AAA1M304	
	OKI	MSM514256	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Sharp	LH64256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
514256-70	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	Hyundai	HY51C4256	
	Krueger	514256-100	
		514256-80	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44256	
	Motorola	MCM514256	
	NEC	µPD424256	
	NMB	AAA1M304	
	OKI	MSM514256	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Sharp	LH64256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
514256-80	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	Hyundai	HY51C4256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44256	
	Motorola	MCM514256	
	NEC	µPD424256	
	NMB	AAA1M304	
	OKI	MSM514256	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Sharp	LH64256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
518128	Samsung	KM658128	
6116-120		SSM6116	
	Cypress	CY7C128	
	Fujitsu	MB8416	
			(Continued)
6116-120			(Cont'd)
	GoldStar	GM76C28	
	Harris	CDM6116	
	Hitachi	HM6116	
	Hyundai	HY61C16	
	IDT	IDT6116	
	Intel	P5116	
	Krueger	**6116-150**	**(3663)**
		6116-200	**(3663)**
	Matra-Harris	HM36116	
	Mosel-Vitelic	MS6516	
	Motorola	MCM6116	
	NEC	µPD446	
		µPD449	
	OKI	MSM5128	
	Panasonic	MN4216	
	Performance	P4C6116	
	S-MOS	SRM2016	
	Sanyo	LC3517	
	SGS-Thomson	MK6116	
	Sharp	LH5116	
	Sony	CXK5816	
	Toshiba	TC5517	
	UMC	UM6116	
	Vitelic	V61C16	
	VLSI Tech	VT20C18	
6116-150		SSM6116	
	Cypress	CY7C128	
	Fujitsu	MB8416	
	GoldStar	GM76C28	
	Harris	CDM6116	
	Hitachi	HM6116	
	Hyundai	HY61C16	
	IDT	IDT6116	
	Intel	P5116	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Matra-Harris	HM36116	
	Mosel-Vitelic	MS6516	
	Motorola	MCM6116	
	NEC	µPD446	
		µPD449	
	OKI	MSM5128	
	Panasonic	MN4216	
	Performance	P4C6116	
	S-MOS	SRM2016	
	Sanyo	LC3517	
	SGS-Thomson	MK6116	
	Sharp	LH5116	
	Sony	CXK5816	
	Toshiba	TC5517	
	UMC	UM6116	
	Vitelic	V61C16	
	VLSI Tech	VT20C18	
6116-200		SSM6116	
	Cypress	CY7C128	
	Fujitsu	MB8416	
	GoldStar	GM76C28	
	Harris	CDM6116	
	Hitachi	HM6116	
	Hyundai	HY61C16	
	IDT	IDT6116	
	Intel	P5116	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Matra-Harris	HM36116	
	Mosel-Vitelic	MS6516	
	Motorola	MCM6116	
	NEC	µPD446	
		µPD449	
	OKI	MSM5128	
	Panasonic	MN4216	
	Performance	P4C6116	
	S-MOS	SRM2016	
	Sanyo	LC3517	
	SGS-Thomson	MK6116	
	Sharp	LH5116	
	Sony	CXK5816	
	Toshiba	TC5517	
	UMC	UM6116	
	Vitelic	V61C16	
	VLSI Tech	VT20C18	
62256-025	Cypress	CY7C198	
		CY7C199	
	Hitachi	HM62832	
	IDT	IDT71256	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
			(Continued)
62256-025			(Cont'd)
	NEC	µPD43258	
	S-MOS	SRM21256	
	Sharp	LH52258	
	Sony	CXK58258	
	Toshiba	TC55328	
62256-030	Cypress	CY7C198	
		CY7C199	
	Hitachi	HM62832	
	IDT	IDT71256	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
	NEC	µPD43258	
	S-MOS	SRM21256	
	Sharp	LH52258	
	Sony	CXK58258	
	Toshiba	TC55328	
62256-035	Cypress	CY7C198	
		CY7C199	
	Hitachi	HM62832	
	IDT	IDT71256	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
	NEC	µPD43258	
	S-MOS	SRM21256	
	Sharp	LH52258	
	Sony	CXK58258	
	Toshiba	TC55328	
62256-070	Catalyst Semi	CAT71C256	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Harris	CDM62256	
	Hitachi	HM62256	
	IDT	IDT71256	
	Intel	P51256	
	Krueger	62256-085	
		62256-100	
		62256-120	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	Motorola	MCM60256	
	NEC	µPD43256	
	OKI	MSM51257	
	S-MOS	SRM20256	
	Samsung	KM62256	
	Sharp	LH51256	
		LH52256	
	Sony	CXK58256	
	Toshiba	TC55257	
	Vitelic	V52C256	
62256-085	Catalyst Semi	CAT71C256	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Harris	CDM62256	
	Hitachi	HM62256	
	IDT	IDT71256	
	Intel	P51256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	Motorola	MCM60256	
	NEC	µPD43256	
	OKI	MSM51257	
	S-MOS	SRM20256	
	Samsung	KM62256	
	Sharp	LH51256	
		LH52256	
	Sony	CXK58256	
	Toshiba	TC55257	
	Vitelic	V52C256	
62256-100	Catalyst Semi	CAT71C256	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Harris	CDM62256	
	Hitachi	HM62256	
	IDT	IDT71256	
	Intel	P51256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	Motorola	MCM60256	
	NEC	µPD43256	
	OKI	MSM51257	
	S-MOS	SRM20256	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Krueger Company (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
62256-100			(Cont'd)
	Samsung	KM62256	
	Sharp	LH51256	
		LH52256	
	Sony	CXK58256	
	Toshiba	TC55257	
	Vitelic	V52C256	
62256-120	Catalyst Semi	CAT71C256	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Harris	CDM62256	
	Hitachi	HM62256	
	IDT	IDT71256	
	Intel	P51256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	Motorola	MCM60256	
	NEC	µPD43256	
	OKI	MSM51257	
	S-MOS	SRM20256	
	Samsung	KM62256	
	Sharp	LH51256	
		LH52256	
	Sony	CXK58256	
	Toshiba	TC55257	
	Vitelic	V52C256	
6264-025		SSM7164	
	AMD	AM99C88	
	Cypress	CY7C185	
	Fujitsu	MB81C78	
	IDT	IDT7164	
	Krueger	6264-35	
		6264-45	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M5178	
	Motorola	MCM6264	
	Performance	P4C164	
	Sony	CXK5863	
	Toshiba	TMM2088	
	Vitelic	V61C64	
6264-035		SSM7164	
	AMD	AM99C88	
	Cypress	CY7C185	
	Fujitsu	MB81C78	
	IDT	IDT7164	
	Krueger	6264-35	
		6264-45	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M5178	
	Motorola	MCM6264	
	Performance	P4C164	
	Sony	CXK5863	
	Toshiba	TMM2088	
	Vitelic	V61C64	
6264-045		SSM7164	
	AMD	AM99C88	
	Cypress	CY7C185	
	Fujitsu	MB81C78	
	IDT	IDT7164	
	Krueger	6264-35	
		6264-45	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M5178	
	Motorola	MCM6264	
	Performance	P4C164	
	Sony	CXK5863	
	Toshiba	TMM2088	
	Vitelic	V61C64	
6264-070	Hyundai	HY62C64P-70	
	LogicDev	L7C185-70	
	Mitsubishi	M5M5165P70	
	Mosel-Vitelic	MS6264-70	
	SGS-Thomson	IMS1630P-70	
	Toshiba	TMM2064-70	
6264-100	ATMEL	AT3864	
	Fujitsu	MB8464	
	GoldStar	GM76C88	
	Harris	CDM6264	
	Hitachi	HM6264	
	Hyundai	HY6264	
	Krueger	**6264-120**	(3663)
		6264-150	(3663)
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
6264-100			(Cont'd)
	Matra-Harris	HM2064	
	Mitsubishi	M5M5165	
	Motorola	MCM6164	
	NEC	µPD4364	
		µPD4464	
	OKI	MSM5165	
	Panasonic	MN4364	
		MN4464	
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264	
	Sharp	LH5164	
	Sony	CXK5864	
	Toshiba	TC5565	
	UMC	UM6264	
	Vitelic	V61C64	
		V62C64	
6264-120	ATMEL	AT3864	
	Fujitsu	MB8464	
	GoldStar	GM76C88	
	Harris	CDM6264	
	Hitachi	HM6264	
	Hyundai	HY6264	
	Krueger	**6264-100**	(3663)
		6264-120	(3663)
		6264-150	(3663)
	Matra-Harris	HM2064	
	Mitsubishi	M5M5165	
	Motorola	MCM6164	
	NEC	µPD4364	
		µPD4464	
	OKI	MSM5165	
	Panasonic	MN4364	
		MN4464	
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264	
	Sharp	LH5164	
	Sony	CXK5864	
	Toshiba	TC5565	
	UMC	UM6264	
	Vitelic	V61C64	
		V62C64	
6264-150	ATMEL	AT3864	
	Fujitsu	MB8464	
	GoldStar	GM76C88	
	Harris	CDM6264	
	Hitachi	HM6264	
	Hyundai	HY6264	
	Krueger	**6264-100**	(3663)
		6264-120	(3663)
		6264-150	(3663)
	Matra-Harris	HM2064	
	Mitsubishi	M5M5165	
	Motorola	MCM6164	
	NEC	µPD4364	
		µPD4464	
	OKI	MSM5165	
	Panasonic	MN4364	
		MN4464	
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264	
	Sharp	LH5164	
	Sony	CXK5864	
	Toshiba	TC5565	
	UMC	UM6264	
	Vitelic	V61C64	
		V62C64	
6264-35	Krueger	6264-025	
		6264-035	
		6264-045	
6264-45	Krueger	6264-025	
		6264-035	
		6264-045	
6264L-120	ATMEL	AT3864L	
	Fujitsu	MB8464A-L	
	GoldStar	GM76C88L	
	Harris	CDM6264A	
	Hitachi	HM6264L	
	Hyundai	HY6264	
	Intel	P5164L	
	Krueger	**6264LP-120**	(3663)
		6264LP-150	(3663)
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264AL	
	Motorola	MCM60L64	
		MCM61L64	
	NEC	µPD4364-L	
	OKI	MSM5165L	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
6264L-120			(Cont'd)
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264L	
	Sanyo	LC3364L	
	SGS-Thomson	IMS1630L	
	Sharp	LH5165L	
	Sony	CXK5864-L	
	Toshiba	TC5565L	
	UMC	UM6264L	
	Vitelic	V62C64-L	
6264LP-035	Fujitsu	MB81C78A-35	
	IDT	IDT7164-35	
	Mitsubishi	M5M5178-35	
	Mosel-Vitelic	MS6264AL-35	
	Sony	CXK5863-35	
	Toshiba	TC5588-35	
6264LP-045	Fujitsu	MB81C78A-45	
	IDT	IDT7164-45	
	Mitsubishi	M5M5178-45	
	Mosel-Vitelic	MS6264AL-45	
	Sony	CXK5863-45	
	Toshiba	TC5588-45	
6264LP-070	Fujitsu	MB8464A-70L	
	Mitsubishi	M5M5165P-70L	
	Mosel-Vitelic	MS6264AL-70	
		V62C64P-70L	
	Philips	61C65L-70	
	Sony	CXK5864-70L	
6264LP-100	ATMEL	AT3864L	
	Fujitsu	MB8464A-L	
	GoldStar	GM76C88L	
	Harris	CDM6264A	
	Hitachi	HM6264L	
	Hyundai	HY6264	
	Intel	P5164L	
	Krueger	**6264LP-120**	(3663)
		6264LP-150	(3663)
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264AL	
	Motorola	MCM60L64	
		MCM61L64	
	NEC	µPD4364-L	
	OKI	MSM5165L	
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264L	
	Sanyo	LC3364L	
	SGS-Thomson	IMS1630L	
	Sharp	LH5165L	
	Sony	CXK5864-L	
	Toshiba	TC5565L	
	UMC	UM6264L	
	Vitelic	V62C64-L	
6264LP-120	ATMEL	AT3864L	
	Fujitsu	MB8464A-L	
	GoldStar	GM76C88L	
	Harris	CDM6264A	
	Hitachi	HM6264L	
	Hyundai	HY6264	
	Intel	P5164L	
	Krueger	6264L-120	
		6264LP-100	(3663)
		6264LP-120	(3663)
		6264LP-150	(3663)
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264AL	
	Motorola	MCM60L64	
		MCM61L64	
	NEC	µPD4364-L	
	OKI	MSM5165L	
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264L	
	Sanyo	LC3364L	
	SGS-Thomson	IMS1630L	
	Sharp	LH5165L	
	Sony	CXK5864-L	
	Toshiba	TC5565L	
	UMC	UM6264L	
	Vitelic	V62C64-L	
6264LP-150	ATMEL	AT3864L	
	Fujitsu	MB8464A-L	
	GoldStar	GM76C88L	
	Harris	CDM6264A	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC M
6264LP-150			(Co
	Hitachi	HM6264L	
	Hyundai	HY6264	
	Intel	P5164L	
	Krueger	6264L-120	
		6264LP-100	(3
		6264LP-120	(3
		6264LP-150	(3
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264AL	
	Motorola	MCM60L64	
		MCM61L64	
	NEC	µPD4364-L	
	OKI	MSM5165L	
	S-MOS	SRM2064	
		SRM2264	
	Samsung	KM6264L	
	Sanyo	LC3364L	
	SGS-Thomson	IMS1630L	
	Sharp	LH5165L	
	Sony	CXK5864-L	
	Toshiba	TC5565L	
	UMC	UM6264L	
	Vitelic	V62C64-L	
6287-35	AMD	AMD99C164	
	Cypress	CY7C187	
	Fujitsu	MB81C71A	
	Hitachi	HM6287	
		HM6787	
	IDT	IDT7187	
	Krueger	**6287-45**	(3
		6287-55	
	Lattice	SR64K	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	NEC	µPD4361	
	SGS-Thomson	IMS1600	
	Sharp	LH5261	
	Sony	CXK5164	
	Toshiba	TC5561	
		TC5562	
6287-45	AMD	AMD99C164	
	Cypress	CY7C187	
	Fujitsu	MB81C71A	
	Hitachi	HM6287	
		HM6787	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	(3
		6287-55	
	Lattice	SR64K	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	NEC	µPD4361	
	SGS-Thomson	IMS1600	
	Sharp	LH5261	
	Sony	CXK5164	
	Toshiba	TC5561	
		TC5562	
6287-55	AMD	AMD99C164	
	Cypress	CY7C187	
	Fujitsu	MB81C71A	
	Hitachi	HM6287	
		HM6787	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	(3
		6287-55	
	Lattice	SR64K	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	NEC	µPD4361	
	SGS-Thomson	IMS1600	
	Sharp	LH5261	
	Sony	CXK5164	
	Toshiba	TC5561	
		TC5562	
6288-25	Cypress	CY7C164	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
			(Contin

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

rueger Company (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
288-25			(Cont'd)
	IDT	IDT7188	
	Krueger	6288-35	
		6288-45	
	Lattice	SR64K4	
	MicronSemi	M5C6404	
	Mitsubishi	M5M5188	
	Mosel-Vitelic	MS6288	
	Motorola	MCM6288	
	NEC	μPD4362	
	OKI	MSM5188	
	Performance	P4C188	
	Philips	FCB61C62	
	SGS-Thomson	IMS1620	
	Sharp	LH5265	
	Sony	CXK5464	
	Toshiba	TC55416	
6288-35	Cypress	CY7C164	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
	IDT	IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	Lattice	SR64K4	
	MicronSemi	M5C6404	
	Mitsubishi	M5M5188	
	Mosel-Vitelic	MS6288	
	Motorola	MCM6288	
	NEC	μPD4362	
	OKI	MSM5188	
	Performance	P4C188	
	Philips	FCB61C62	
	SGS-Thomson	IMS1620	
	Sharp	LH5265	
	Sony	CXK5464	
	Toshiba	TC55416	
6288-45	Cypress	CY7C164	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
	IDT	IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	Lattice	SR64K4	
	MicronSemi	M5C6404	
	Mitsubishi	M5M5188	
	Mosel-Vitelic	MS6288	
	Motorola	MCM6288	
	NEC	μPD4362	
	OKI	MSM5188	
	Performance	P4C188	
	Philips	FCB61C62	
	SGS-Thomson	IMS1620	
	Sharp	LH5265	
	Sony	CXK5464	
	Toshiba	TC55416	
6289-25		SSM7166	
	Cypress	CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6289	
		HM6789	
	IDT	IDT6198	
	Krueger	6289-35	
		6289-45	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Motorola	MCM6290	
	Performance	μPD4362	
	SGS-Thomson	IMS1624	
	Sharp	LH5267	
	Sony	CXK5465	
	Toshiba	TC55417	
6289-35		SSM7166	
	Cypress	CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6289	
		HM6789	
	IDT	IDT6198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Motorola	MCM6290	
	Performance	μPD4362	
	SGS-Thomson	IMS1624	
	Sharp	LH5267	
	Sony	CXK5465	
	Toshiba	TC55417	
6289-45		SSM7166	
	Cypress	CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6289	
		HM6789	
	IDT	IDT6198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Motorola	MCM6290	
	Performance	μPD4362	
	SGS-Thomson	IMS1624	
	Sharp	LH5267	
	Sony	CXK5465	
	Toshiba	TC55417	
65256-100	Hitachi	HM65256	
	Krueger	65256-120	
	NEC	μPD42832	
	Toshiba	TC51832	
65256-120	Hitachi	HM65256	
	Krueger	65256-100	
	NEC	μPD42832	
	Toshiba	TC51832	
6800	American Micro	S6800	
	Hitachi	HD6800	
	Motorola	MC6800	
	SGS-Thomson	EF6800	
		MK6800	
68000	Hitachi	HM68000	
	Philips	SCN68000	
	SGS-Thomson	TS68000	
68008	Motorola	MC68008	
	SGS-Thomson	TS68008	
68010	Motorola	MC68010	
68020	Motorola	MC68020	
6809	American Micro	S6809	
	Hitachi	HD6809	
	Motorola	MC6809	
	SGS-Thomson	EF6809	
6809E	American Micro	S6809E	
	Hitachi	HD6809E	
	Motorola	MC6809E	
	SGS-Thomson	EF6809E	
6810	Motorola	MCM6810	
68211	Motorola	MC68211	
	SGS-Thomson	MK68211	
6845	Commodore	6545	
	Hitachi	HD46505	
		HD6845	
	Motorola	MC6845	
	Rockwell	**R6545**	**(3759)**
	UMC	UM6845	
68592	SGS-Thomson	MK68592	
68881	Motorola	MC68881	
751506	TI	SN751506	
751508	TI	SN751508	
751516	TI	SN751516	
751518	TI	SN751518	
765	Intel	8272	
	NEC	μPD765	
	Rockwell	R6765	
	SMC	FDC765	
	VLSI Tech	VL6765	
	Zilog	Z0765	
80C286	Harris	80C286	
	Intel	80C286	
80186	AMD	80186	
	Intel	80186	
	Siemens	SAB80186	
80286	AMD	AM80286	
	Fujitsu	MBL80286	
	Intel	80286	
	Siemens	SAB80286	
8031	AMD	8031	
	Fujitsu	MBL8031	
	Intel	P8031	
	OKI	M80C31	
	Philips	MAB8031	
		SCN8031	
	Siemens	SAB8031	
8035	AMD	8035	
	Intel	P8035	
80386SL	Intel	80386SL	
8039	AMD	8039	
	Fujitsu	MBL8039	
	Intel	P8039	
	Mitsubishi	M5L8039	
	National	INS8039	
	NEC	μPD8039	
	OKI	MSM80C39	
	Philips	SCN8039	
	Toshiba	TMP8039	
8080A	AMD	AM9080A	
		P8080A	
	Intel	P8080A	
	National	INS8080A	
	NEC	μPD8080A	
8085A	AMD	8085A	
	Intel	P8085A	
	Mitsubishi	M5L8085A	
	NEC	μPD8085A	
	OKI	MSM8085	
	Siemens	SAB8085A	
	Toshiba	TMP8085A	
8086	AMD	8086	
	Fujitsu	MBL8086	
	Intel	D8086	
		P8086	
	NEC	μPD8086	
	Siemens	SAB8086	
8088	AMD	8088	
	Fujitsu	MBL8088	
	Intel	D8088	
		P8088	
	NEC	μPD8088	
	Siemens	SAB8088	
8237	AMD	AM9517	
		P8237	
	Intel	P8237	
	NEC	μPD8237	
	Toshiba	TMP8237	
	UMC	UM8237	
8250	National	INS8250	
	UMC	UM8250	
	Western	WD8250	
8251	AMD	8251	
	Intel	P8251	
	Mitsubishi	M5L8251	
	National	P8251	
	NEC	μPD8251	
	OKI	M82C51	
	Toshiba	TMP82C51	
		TMP8251	
8253	Intel	P8253	
	Mitsubishi	M5L8253	
	National	P8253	
	NEC	μPD8253	
	OKI	M82C53	
	Toshiba	TMP82C53	
		TMP8253	
8254	AMD	8254	
	Intel	P8254	
8255	AMD	8255	
	Intel	P8255	
	Mitsubishi	M5L8255	
	National	INS8255	
	NEC	μPD8255	
	OKI	MSM82C55	
	Toshiba	TMP8255	
8257	AMD	8257	
	Intel	P8257	
	Mitsubishi	M5L8257	
	NEC	μPD8257	
82586	Intel	82586	
8259	AMD	8259A	
	Fujitsu	MBL8259A	
	Intel	P8259A	
	Mitsubishi	M5L8259A	
	NEC	μPD8259A	
	Siemens	SAB8259A	
	Toshiba	TMP8259A	
	UMC	UM8259A	
8464	Exar	XR8464	
	MicroLinear	ML8464	
	National	DP8464	
8473	National	DP8473	
9007	SMC	CRT9007	

Lansdale Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
HL7644	Harris	ICL7644	
IL8080	Intel	M8080	
IL8284	Intel	M8284	
♦ MC3028	**Lansdale**	**ML3028**	**(3667)**
♦ MC54196	**Lansdale**	**ML54196**	**(3668)**
ML0026	Motorola	MMH0026	
ML10687	Motorola	MC10687	
ML1217	Motorola	MC1217	
ML1226	Motorola	MC1226	
ML14002B	Motorola	ML14002B	
ML14508B	Motorola	ML14508B	
ML2151	Raytheon	RG221	
ML3357	Motorola	MC3357	
ML3558	Motorola	MC3558	
ML4350	Micrel	MIC4350	
ML54H00	Rochester	RC3100	
		54H00	
ML54H01	Rochester	RC3104	
		54H01	
ML54H04	Rochester	RC3108	
		54H04	
ML54H05	Rochester	RC3109	
		54H05	
ML54H08	Rochester	54H08	
ML54H10	Rochester	RC3105	
		54H10	
ML54H101	Rochester	54H101	
	TI	SN54H101	
ML54H102	Rochester	54H102	
	TI	SN54H102	
ML54H103	Rochester	54H103	
	TI	SN54H103	
ML54H108	Rochester	54H108	
	TI	SN54H108	
ML54H11	Rochester	RC3106	
		54H11	
	TI	SN54H11	
ML54H20	Rochester	RC3110	
		54H20	
ML54H21	Rochester	RC3111	
		54H21	
	TI	SN54H21	
ML54H22	Rochester	RC3112	
		54H22	
ML54H30	Rochester	RC3116	
		54H30	
ML54H40	Rochester	RC3124	
		54H40	
ML54H50	Rochester	RC3120	
		54H50	
ML54H51	Rochester	RC3123	
		54H51	
ML54H52	Rochester	RC3131	
		54H52	
ML54H53	Rochester	RC3132	
		54H53	
ML54H54	Rochester	RC3133	
		54H54	
ML54H55	National	54H55	
	Rochester	RC3134	
		54H55	
ML54H60	Rochester	RC3130	
		54H60	
ML54H61	Rochester	RC3119	
		54H61	
	TI	SN54H61	
ML54H62	Rochester	RC3118	
		54H62	
ML54H71	Rochester	RC3154	
		54H71	
ML54H72	Rochester	RC3155	
		54H72	
ML54H73	Rochester	RC3163	
		54H73	
	TI	SN54H73	
ML54H74	Rochester	RC3160	
		54H74	
ML54H87	Rochester	54H87	
	TI	SN54H87	
ML54107	Motorola	MC54107	
ML54141	TI	SN54141	
ML54181	Rochester	54181	
ML54182	Rochester	54182	
ML54190	TI	SN54190	
ML54191	TI	SN54191	
ML5423	TI	SN5423	
ML5427	TI	SN5427	
ML54279	TI	SN54279	
ML54293	TI	SN54293	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Lansdale Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ML5437	TI	SN5437	
ML5448	TI	SN5448	
ML5449	TI	SN5449	
ML5475	TI	SN5475	
ML5485	TI	SN5485	
ML660	Motorola	MC660	
ML661	Motorola	MC661	
ML662	Motorola	MC662	
ML663	Motorola	MC663	
ML664	Motorola	MC664	
ML665	Motorola	MC665	
ML666	Motorola	MC666	
ML667	Motorola	MC667	
ML668	Motorola	MC668	
ML669	Motorola	MC669	
ML670	Motorola	MC670	
ML671	Motorola	MC671	
ML672	Motorola	MC672	
ML673	Motorola	MC673	
ML674	Motorola	MC674	
ML675	Motorola	MC675	
ML676	Motorola	MC676	
ML677	Motorola	MC677	
ML678	Motorola	MC678	
ML679	Motorola	MC679	
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ML686	Motorola	MC686	
ML688	Motorola	MC688	
ML689	Motorola	MC689	
ML690	Motorola	MC690	
ML691	Motorola	MC691	
ML693	Motorola	MC693	
ML696	Motorola	MC696	
ML697	Motorola	MC697	
ML699	Motorola	MC699	
ML74H00	Rochester	RC3000	
		74H00	
ML74H01	OKI	74H000	
	Rochester	RC3004	
		74H01	
ML74H04	Rochester	RC3008	
		74H04	
ML74H05	Rochester	RC3009	
		74H05	
ML74H08	Rochester	RC3001	
		74H08	
ML74H10	Rochester	RC3005	
		74H10	
ML74H101	Rochester	74H101	
ML74H103	Rochester	74H103	
ML74H108	Rochester	74H108	
ML74H11	Rochester	RC3006	
		74H11	
ML74H20	Rochester	RC3010	
		74H20	
ML74H21	Rochester	RC3011	
		74H21	
ML74H22	Rochester	RC3012	
		74H22	
ML74H30	Rochester	RC3016	
		74H30	
ML74H40	Rochester	RC3024	
		74H40	
ML74H50	Rochester	RC3020	
		74H50	
ML74H51	Rochester	RC3023	
		74H51	
ML74H52	Rochester	RC3031	
		74H52	
ML74H53	Rochester	RC3032	
		74H53	
ML74H54	Rochester	RC3033	
		74H54	
ML74H55	Rochester	3034	
		74H55	
ML74H60	Rochester	RC3030	
		74H60	
ML74H61	Rochester	74H61	
ML74H62	Rochester	RC3018	
		74H62	
ML74H71	Rochester	RC3054	
		74H71	
ML74H72	Rochester	RC3055	
		74H72	

Manufacturer Device	Replacement Source	Device	IC Master Page
ML74H73	Rochester	RC3063	
		74H73	
ML74H74	Rochester	RC3060	
		74H74	
ML74H87	Rochester	74H76	
		74H87	
ML7404	Motorola	MC7404	
ML7413	TI	SN7413	
ML74132	TI	SN74132	
ML7414	TI	SN7414	
ML74167	TI	SN74167	
ML7423	TI	SN7423	
ML7425	TI	SN7425	
ML74279	TI	SN74279	
ML74293	TI	SN74293	
ML74298	TI	SN74298	
ML7440	Motorola	MC7440	
ML7450	TI	SN7450	
ML7451	TI	SN7451	
ML7481	TI	SN7481	
ML7483	TI	SN7483	
ML7485	TI	SN7485	
ML7486	TI	SN7486	
ML958	Motorola	MC958	
OP400	Harris	HA5134	
		HA5234	
SL1488	TI	MC1488	
SL1489	TI	MC1489	
SL54H00	Rochester	RC3100	
SL54H01	Rochester	RC3104	
		54H01	
SL54H10	Rochester	RC3105	
		54H10	
SL54H101	TI	SN54H101	
SL54H102	TI	SN54H102	
SL54H103	TI	SN54H103	
SL54H106	TI	SN54H106	
SL54H108	TI	SN54H108	
SL54H11	Rochester	RC3106	
		54H11	
	TI	SN54H11	
SL54H20	Rochester	RC3110	
SL54H21	Rochester	RC3111	
		54H21	
	TI	SN54H21	
SL54H22	Rochester	RC3112	
		54H22	
SL54H30	Rochester	RC3116	
		54H30	
SL54H40	Rochester	RC3124	
SL54H52	Rochester	RC3131	
		54H52	
SL54H53	Rochester	RC3132	
		54H53	
SL54H54	Rochester	RC3133	
		54H54	
SL54H55	Rochester	RC3134	
		54H55	
SL54H60	Rochester	RC3130	
		54H60	
SL54H61	Rochester	RC3119	
		54H61	
	TI	SN54H61	
SL54H62	Rochester	RC3118	
		54H62	
SL54H71	Rochester	RC3154	
		54H71	
SL54H72	Rochester	RC3155	
		54H72	
SL54H73	Rochester	RC3163	
		54H73	
SL54H74	Rochester	RC3160	
		54H74	
SL54H76	TI	SN54H76	
SL54LS00	GoldStar	GD54LS00	
	Motorola	SN54LS00	
	National	DM54LS00	
		54LS00	
	SGS-Thomson		
		T54LS00	
		54LS00	
	TI	SN54LS00	
SL54LS01	Motorola	SN54LS01	
	TI	SN54LS01	
SL54LS02	GoldStar	GD54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
		54LS02	
	SGS-Thomson		
		T54LS02	
		54LS02	
	TI	SN54LS02	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
SL54LS04	GoldStar	GD54LS04	
		54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson		
		T54LS04	
		54LS04	
	TI	SN54LS04	
SL54LS05	GoldStar	GD54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
		54LS05	
	SGS-Thomson		
		T54LS05A	
		54LS05	
	TI	SN54LS05	
SL54LS08	GoldStar	GD54LS08	
	Motorola	SN54LS08	
	National	DM54LS08	
		54LS08	
	TI	SN54LS08	
SL54LS09	GoldStar	GD54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
		54LS09	
	SGS-Thomson		
		T54LS09	
		54LS09	
	TI	SN54LS09	
SL54LS10	GoldStar	GD54LS10	
	Motorola	SN54LS10	
	National	DM54LS10	
		54LS10	
	SGS-Thomson		
		T54LS10	
		54LS10	
	TI	SN54LS10	
SL54LS107	GoldStar	GD54LS107A	
	Motorola	SN54LS107A	
	National	DM54LS107A	
	TI	SN54LS107A	
SL54LS109	GoldStar	GD54LS109A	
	Motorola	SN54LS109A	
	National	DM54LS109	
		54LS109	
	TI	SN54LS109A	
SL54LS11	GoldStar	GD54LS11	
	Motorola	SN54LS11	
	National	DM54LS11	
		54LS11	
	SGS-Thomson		
		T54LS11	
		54LS11	
	TI	SN54LS11	
SL54LS112	GoldStar	GD54LS112	
	Motorola	SN54LS112A	
	National	54LS112	
	TI	SN54LS112A	
SL54LS113	Motorola	SN54LS113A	
	National	54LS113	
SL54LS125	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125A	
	Motorola	SN54LS125A	
	National	DM54LS125A	
		54LS125A	
	SGS-Thomson		
		54LS125A	
	TI	SN54LS125A	
SL54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125	
	Motorola	SN54LS125A	
	National	DM54LS125A	
		54LS125A	
	SGS-Thomson		
		54LS125A	
	TI	SN54LS125A	
SL54LS126A	Motorola	SN54LS126A	
	National	54LS126	
	SGS-Thomson		
		54LS126	
	TI	SN54LS126A	
SL54LS13	Motorola	SN54LS13	
	National	54LS13	
	SGS-Thomson		
		T54LS13	
	TI	SN54LS13	
SL54LS132	GoldStar	GD54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Mas Pa
SL54LS132			(Cont'
	SGS-Thomson		
		T54LS132	
		54LS132	
	TI	SN54LS132	
SL54LS136	Motorola	SN54LS136	
	National	DM54LS136	
		54LS136	
	SGS-Thomson		
		T54LS136	
		54LS136	
	TI	SN54LS136	
SL54LS14	GoldStar	GD54LS14	
	Motorola	SN54LS14	
	National	54LS14	
	SGS-Thomson		
		T54LS14	
		54LS14	
	TI	SN54LS14	
SL54LS151	GoldStar	GD54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
		54LS151	
	SGS-Thomson		
		T54LS151	
		54LS151	
	TI	SN54LS151	
SL54LS153	GoldStar	GD54LS153	
	Motorola	SN54LS153	
	National	DM54LS153	
		54LS152	
		54LS153	
	TI	SN54LS153	
SL54LS154	GoldStar	GD54LS154	
	National	DM54LS154	
SL54LS155	GoldStar	GD54LS155	
	Motorola	SN54LS155	
	National	DM54LS155	
		54LS155	
	SGS-Thomson		
		T54LS155	
		54LS155	
	TI	SN54LS155A	
SL54LS156	Motorola	SN54LS156	
	National	DM54LS156	
		54LS156	
	SGS-Thomson		
		T54LS156	
		54LS156	
	TI	SN54LS156	
SL54LS157	GoldStar	GD54LS157	
	Motorola	SN54LS157	
	National	DM54LS157	
		54LS157	
	SGS-Thomson		
		T54LS157	
		54LS157	
	TI	SN54LS157	
SL54LS158	GoldStar	GD54LS158	
	Motorola	SN54LS158	
	National	DM54LS158	
		54LS158	
	SGS-Thomson		
		T54LS158	
		54LS158	
	TI	SN54LS158	
SL54LS160A	Motorola	SN54LS160A	
	National	54LS160A	
	TI	SN54LS160A	
SL54LS162A	Motorola	SN54LS162A	
	National	54LS162A	
	TI	SN54LS162A	
SL54LS163A	GoldStar	GD54LS163A	
	Motorola	SN54LS163A	
	National	DM54LS163A	
		54LS163A	
	TI	SN54LS163A	
SL54LS164	GoldStar	GD54LS164	
	Motorola	SN54LS164	
	National	DM54LS164	
		54LS164	
	TI	SN54LS164	
SL54LS169A	Motorola	SN54LS169	
	National	DM54LS169A	
		54LS169	
	SGS-Thomson		
		T54LS169	
	TI	SN54LS169B	
SL54LS170	Motorola	SN54LS170	
	National	54LS170	
	SGS-Thomson		
		T54LS170	
		54LS170	
	TI	SN54LS170	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SL54LS173	Motorola	SN54LS173A	
	National	54LS173A	
	TI	SN54LS173A	
SL54LS174	GoldStar	GD54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
		54LS174	
	SGS-Thomson		
		T54LS174	
		54LS174	
	TI	SN54LS174	
SL54LS175	GoldStar	GD54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
		54LS175	
	SGS-Thomson		
		T54LS175	
		54LS175	
	TI	SN54LS175	
SL54LS181	Motorola	SN54LS181	
	National	54LS181	
	TI	SN54LS181	
SL54LS191	GoldStar	GD54LS191	
	Motorola	SN54LS191	
	National	DM54LS191	
	TI	SN54LS191	
SL54LS192	Motorola	SN54LS192	
	National	54LS192	
	SGS-Thomson		
		T54LS192	
		54LS192	
	TI	SN54LS192	
SL54LS194A	GoldStar	GD54LS194A	
	Motorola	SN54LS194A	
	National	54LS194A	
	SGS-Thomson		
		T54LS194A	
	TI	SN54LS194A	
SL54LS197	Motorola	SN54LS197	
	TI	SN54LS197	
SL54LS20	GoldStar	GD54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
		54LS20	
	SGS-Thomson		
		T54LS20	
		54LS20	
	TI	SN54LS20	
SL54LS21	GoldStar	GD54LS21	
	Motorola	SN54LS21	
	National	DM54LS21	
		54LS21	
	TI	SN54LS21	
SL54LS240	GoldStar	GD54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
		54LS240	
	SGS-Thomson		
		T54LS240	
		54LS240	
	TI	SN54LS240	
SL54LS241	GoldStar	GD54LS241	
	Motorola	SN54LS241	
	National	DM54LS241	
		54LS241	
	TI	SN54LS241	
SL54LS242	GoldStar	GD54LS242	
	Motorola	SN54LS242	
	National	DM54LS242	
	TI	SN54LS242	
SL54LS243	GoldStar	GD54LS243	
	Motorola	SN54LS243	
	National	DM54LS243	
	TI	SN54LS243	
SL54LS244	GoldStar	GD54LS244	
	Motorola	SN54LS244	
	National	54LS244	
	TI	SN54LS244	
SL54LS245	GoldStar	GD54LS245	
	Motorola	SN54LS245	
	National	DM54LS245	
		54LS245	
	TI	SN54LS245	
SL54LS251	GoldStar	GD54LS251	
	Motorola	SN54LS251	
	National	DM54LS251	
	TI	SN54LS251	
SL54LS253	Motorola	SN54LS253	
	National	DM54LS253	
		54LS253	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SL54LS253			(Cont'd)
	TI	SN54LS253	
SL54LS256	Motorola	SN54LS256	
	National	54LS256	
	SGS-Thomson		
		T54LS256	
SL54LS257A	GoldStar	GD54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
	National	DM54LS257B	
		54LS257A	
	TI	SN54LS257B	
SL54LS258A	GoldStar	GD54LS258B	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson		
		T54LS258A	
		54LS258	
	TI	SN54LS258B	
SL54LS259	GoldStar	GD54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
		54LS259	
	SGS-Thomson		
		T54LS259	
		54LS259	
	TI	SN54LS259B	
SL54LS26	GoldStar	GD54LS26	
	Motorola	SN54LS26	
	National	DM54LS26	
		54LS26	
	TI	SN54LS26	
SL54LS260	Motorola	SN54LS260	
	National	54LS260	
	SGS-Thomson		
		T54LS260	
SL54LS266	Motorola	SN54LS266	
	National	54LS266	
	SGS-Thomson		
		T54LS266	
		54LS266	
	TI	SN54LS266	
SL54LS273	GoldStar	GD54LS273	
	Motorola	SN54LS273	
	National	54LS273	
	Philips	54LS273	
	SGS-Thomson		
		T54LS273	
		54LS273	
	TI	SN54LS273	
SL54LS283	GoldStar	GD54LS283	
	Motorola	SN54LS283	
	National	DM54LS283	
		54LS283	
	SGS-Thomson		
		54LS283	
	TI	SN54LS283	
SL54LS295B	TI	SN54LS295B	
SL54LS298	GoldStar	GD54LS298	
	Motorola	SN54LS298	
	National	54LS298	
	SGS-Thomson		
		54LS298	
	TI	SN54LS298	
SL54LS30	GoldStar	GD54LS30	
	Motorola	SN54LS30	
	National	DM54LS30	
		54LS30	
	SGS-Thomson		
		T54LS30	
		54LS30	
	TI	SN54LS30	
SL54LS32	GoldStar	GD54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
		54LS32	
	SGS-Thomson		
		T54LS32	
		54LS32	
	TI	SN54LS32	
SL54LS33	Motorola	SN54LS33	
	National	54LS33	
	SGS-Thomson		
		T54LS33	
	TI	SN54LS33	
SL54LS352	Motorola	SN54LS352	
	National	DM54LS352	
		54LS352	
	SGS-Thomson		
		T54LS352	
	TI	SN54LS352	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SL54LS353	Motorola	SN54LS353	
	National	54LS353	
	SGS-Thomson		
		T54LS353	
	TI	SN54LS353	
SL54LS365A	Motorola	SN54LS365A	
	National	DM54LS365A	
		54LS365	
	SGS-Thomson		
		T54LS365A	
		54LS365	
	TI	SN54LS365A	
SL54LS366A	GoldStar	GD54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
		54LS366	
	SGS-Thomson		
		T54LS366A	
		54LS366	
	TI	SN54LS366A	
SL54LS367A	GoldStar	GD54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
		54LS367	
	SGS-Thomson		
		T54LS367A	
		54LS367	
	TI	SN54LS367A	
SL54LS37	Motorola	SN54LS37	
	National	DM54LS37	
		54LS37	
	SGS-Thomson		
		T54LS37	
		54LS37	
	TI	SN54LS37	
SL54LS373	GoldStar	GD54LS373	
	Motorola	SN54LS373	
	National	DM54LS373	
	SGS-Thomson		
		T54LS373	
		54LS373	
	TI	SN54LS373	
SL54LS374	GoldStar	GD54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
		54LS374	
	SGS-Thomson		
		T54LS374	
		54LS374	
	TI	SN54LS374	
SL54LS375	Motorola	SN54LS375	
	National	54LS375	
	TI	SN54LS375	
SL54LS377	GoldStar	GD54LS377	
	Motorola	SN54LS377	
	National	54LS377	
	SGS-Thomson		
		T54LS377	
		54LS377	
	TI	SN54LS377	
SL54LS378	Motorola	SN54LS378	
	National	54LS378	
	SGS-Thomson		
		T54LS378	
	TI	SN54LS378	
SL54LS38	GoldStar	GD54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
		54LS38	
	SGS-Thomson		
		T54LS38	
		54LS38	
	TI	SN54LS38	
SL54LS390	GoldStar	GD54LS390	
	Motorola	SN54LS390	
	SGS-Thomson		
		T54LS390	
		54LS390	
	TI	SN54LS390	
SL54LS393	GoldStar	GD54LS393	
	Motorola	SN54LS393	
	SGS-Thomson		
		T54LS393	
	TI	SN54LS393	
SL54LS395A	GoldStar	GD54LS395	
	SGS-Thomson		
		T54LS395	
	TI	SN54LS395A	
SL54LS40	Motorola	SN54LS40	
	National	54LS40	
	SGS-Thomson		
		T54LS40	
		54LS40	
	TI	SN54LS40	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SL54LS42	GoldStar	GD54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	DM54LS42	
		54LS42	
	SGS-Thomson		
		T54LS42	
		54LS42	
	TI	SN54LS42	
SL54LS490	Motorola	SN54LS490	
	National	54LS490	
	SGS-Thomson		
		T54LS490	
	TI	SN54LS490	
SL54LS51	GoldStar	GD54LS51	
	Motorola	SN54LS51	
	National	54LS503	
		54LS51	
	TI	SN54LS51	
SL54LS54	Motorola	SN54LS54	
	National	54LS54	
	SGS-Thomson		
		T54LS54	
		54LS54	
	TI	SN54LS54	
SL54LS540	Motorola	SN54LS540	
	TI	SN54LS540	
SL54LS541	Motorola	SN54LS541	
	TI .	SN54LS541	
SL54LS623	Motorola	SN54LS623	
SL54LS640	GoldStar	GD54LS640	
		GD54LS640-1	
	Motorola	SN54LS640	
	TI	SN54LS640	
SL54LS641-1	Motorola	SN54LS641	
	TI	SN54LS641	
SL54LS642	Motorola	SN54LS642	
	TI	SN54LS642	
SL54LS645	**Lansdale**	**SL54LS645-1**	**(3674)**
	Motorola	SN54LS645	
	TI	SN54LS645	
SL54LS645-1	**Lansdale**	**SL54LS645**	**(3674)**
	Motorola	SN54LS645	
	TI	SN54LS645	
SL54LS670	GoldStar	GD54LS670	
	Motorola	SN54LS670	
	National	DM54LS670	
		54LS670	
	SGS-Thomson		
		54LS670	
	TI	SN54LS670	
SL54LS73	GoldStar	GD54LS73A	
	Motorola	SN54LS73A	
	National	DM54LS73A	
	TI	SN54LS73A	
SL54LS74A	GoldStar	GD54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
		54LS74	
	SGS-Thomson		
		T54LS74A	
		54LS74	
	TI	SN54LS74A	
SL54LS75	Motorola	SN54LS748	
		SN54LS75	
	National	DM54LS75	
	TI	SN54LS75	
SL54LS76	Motorola	SN54LS76A	
	TI	SN54LS76A	
SL54LS83A	Motorola	SN54LS83A	
	National	DM54LS83A	
		54LS83A	
	SGS-Thomson		
		54LS83A	
	TI	SN54LS83A	
SL54LS85	GoldStar	GD54LS85	
	Motorola	SN54LS848	
		SN54LS85	
	National	DM54LS85	
		54LS85	
	TI	SN54LS85	
SL54LS86	GoldStar	GD54LS86	
	Motorola	SN54LS86	
	National	DM54LS86	
	TI	SN54LS86A	
SL54LS90	GoldStar	GD54LS90	
	Motorola	SN54LS90	
	TI	SN54LS90	
SL54LS92	GoldStar	GD54LS92	
	Motorola	SN54LS92	
	TI	SN54LS92	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Lansdale Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SL54LS93	GoldStar	GD54LS93	
	Motorola	SN54LS93	
	SGS-Thomson	T54LS93	
		54LS93	
	TI	SN54LS93	
SL54LS95B	GoldStar	GD54LS95B	
	Motorola	SN54LS95B	
	National	54LS95B	
	TI	SN54LS95B	
SL54LS96	TI	SN54LS96	
SL54S00	GoldStar	GD54S00	
	National	DM54S00	
	Rochester	54S00	
	TI	SN54S00	
SL54S02	GoldStar	GD54S02	
	National	DM54S02	
	Rochester	54S02	
	TI	SN54S02	
SL54S03	National	DM54S03	
	TI	SN54S03	
SL54S04	GoldStar	GD54S04	
	National	DM54S04	
	Rochester	54S04	
	TI	SN54S04	
SL54S05	GoldStar	GD54S05	
	TI	SN54S05	
SL54S08	GoldStar	GD54S08	
	National	DM54S08	
	Rochester	54S08	
	TI	SN54S08	
SL54S10	GoldStar	GD54S10	
	National	DM54S10	
	Rochester	54S10	
	TI	SN54S10	
SL54S11	National	DM54S11	
	Rochester	54S11	
	TI	SN54S11	
SL54S112	GoldStar	GD54S112	
	National	DM54S112	
	Rochester	54S112	
	TI	SN54S112	
SL54S113	Rochester	54S113	
	TI	SN54S113	
SL54S133	GoldStar	GD54S133	
	National	DM54S133	
	Rochester	54S133	
	TI	SN54S133	
SL54S134	Rochester	54S134	
	TI	SN54S134	
SL54S135	Rochester	54S135	
	TI	SN54S135	
SL54S138	GoldStar	GD54S138	
	National	DM54S138	
	Rochester	54S138	
	TI	SN54S138	
SL54S139	GoldStar	GD54S139	
	National	DM54S139	
	Rochester	54S139	
	TI	SN54S139	
SL54S140	National	DM54S140	
	Rochester	54S140	
	TI	SN54S140	
SL54S151	National	DM54S151	
	Rochester	54S151	
	TI	SN54S151	
SL54S153	GoldStar	GD54S153	
	National	DM54S153	
	Rochester	54S153	
	TI	SN54S153	
SL54S157	GoldStar	GD54S157	
	National	DM54S157	
	Rochester	54S157	
	TI	SN54S157	
SL54S158	GoldStar	GD54S158	
	National	DM54S158	
	Rochester	54S158	
	TI	SN54S158	
SL54S174	GoldStar	GD54S174	
	National	DM54S174	
	Rochester	54S174	
	TI	SN54S174	
SL54S175	GoldStar	GD54S175	
	National	DM54S175	
	Rochester	54S175	
	TI	SN54S175	
SL54S181	Rochester	54S181	
	TI	SN54S181	
SL54S182	TI	SN54S182	
SL54S189	National	DM54S189	
		DM54S189A	
	Rochester	54S189	
SL54S194	National	DM54S194	
	Rochester	54S194	
	TI	SN54S194	
SL54S195	National	DM54S195	
	Rochester	54S195	
	TI	SN54S195	
SL54S20	GoldStar	GD54S20	
	National	DM54S20	
	Rochester	54S20	
	TI	SN54S20	
SL54S225	Rochester	54S226	
SL54S240	GoldStar	GD54S240	
	National	DM54S240	
	TI	SN54S240	
SL54S241	GoldStar	GD54S241	
	National	DM54S241	
	TI	SN54S241	
SL54S244	GoldStar	GD54S244	
	TI	SN54S244	
SL54S251	GoldStar	GD54S251	
	National	DM54S251	
	Rochester	54S251	
	TI	SN54S251	
SL54S253	National	DM54S253	
	Rochester	54S253	
SL54S257	GoldStar	GD54S257	
	National	DM54S257	
	Rochester	54S257	
	TI	SN54S257	
SL54S258	National	DM54S258	
	Rochester	54S258	
	TI	SN54S258	
SL54S260	Rochester	54S260	
	TI	SN54S260	
SL54S280	GoldStar	GD54S280	
	National	DM54S280	
	TI	SN54S280	
SL54S32	GoldStar	GD54S32	
	National	DM54S32	
	TI	SN54S32	
SL54S350	TI	SN54S350	
SL54S37	TI	SN54S37	
SL54S373	National	DM54S373	
	TI	SN54S373	
SL54S374	GoldStar	GD54S374	
	Rochester	54S374	
	TI	SN54S374	
SL54S38	TI	SN54S38	
SL54S40	National	DM54S40	
	Rochester	54S40	
	TI	SN54S40	
SL54S51	GoldStar	GD54S51	
	Rochester	54S51	
	TI	SN54S51	
SL54S64	GoldStar	GD54S64	
	National	DM54S64	
	TI	SN54S64	
SL54S74	GoldStar	GD54S74	
	Rochester	54S74	
	TI	SN54S74	
SL54S85	GoldStar	GD54S85	
	TI	SN54S85	
SL54S86	GoldStar	GD54S86	
	TI	SN54S86	
SL5400	TI	SN5400	
SL5403	TI	SN5403	
SL5404	TI	SN5404	
SL5405	TI	SN5405	
SL5406	TI	SN5406	
SL5407	TI	SN5407	
SL5408	TI	SN5408	
SL5410	TI	SN5410	
SL54107	TI	SN54107	
SL54109	TI	SN54109	
SL5411	TI	SN5411	
SL54121	TI	SN54121	
SL54123	TI	SN54123	
SL54126	TI	SN54126	
SL5413	TI	SN5413	
SL54132	TI	SN54132	
SL5414	TI	SN5414	
SL54150	TI	SN54150	
SL54151	TI	SN54151	
SL54153	TI	SN54153	
SL54154	TI	SN54154	
SL54155	TI	SN54155	
SL54156	TI	SN54156	
SL54157	TI	SN54157	
SL5416	TI	SN5416	
SL54160	TI	SN54160	
SL54161	TI	SN54161	
SL54163	TI	SN54163	
SL54164	TI	54164	
SL54165	TI	SN54165	
SL54166	TI	SN54166	
SL5417	TI	SN5417	
SL54173	TI	SN54173	
SL54174	TI	SN54174	
SL54175	TI	SN54175	
SL54180	TI	SN54180	
SL54181	Rochester	54181	
	TI	SN54181	
SL54182	Rochester	54182	
SL54190	TI	SN54190	
SL54191	TI	SN54191	
SL54192	TI	SN54192	
SL54193	TI	SN54193	
SL54194	National	DM54194	
SL54195	TI	SN54195	
SL54199	TI	SN54199	
SL5420	TI	SN5420	
SL54221	TI	SN54221	
SL5426	TI	SN5426	
SL5427	TI	SN5427	
SL54279	TI	SN54279	
SL5430	TI	SN5430	
SL5432	TI	SN5432	
SL5437	TI	SN5437	
SL5438	TI	SN5438	
SL5440	TI	SN5440	
SL5445	TI	SN5445	
SL5448	TI	SN5448	
SL5450	TI	SN5450	
SL5451	TI	SN5451	
SL5473	TI	SN5473	
SL5474	TI	SN5474	
SL5475	TI	SN5475	
SL5476	TI	SN5476	
SL5483	TI	SN5483	
SL5485	TI	SN5485	
SL5486	TI	SN5486	
SL5490	TI	SN5490	
SL5492	TI	SN5492	
SL5493	TI	SN5493	
SL5494	TI	SN5494	
SL5495	TI	SN5495	
SL5496	TI	SN5496	
SL74H00	Rochester	RC3000	
		74H00	
SL74H01	Rochester	RC3004	
		74H01	
SL74H08	Rochester	RC3001	
		74H08	
SL74H10	Rochester	RC3005	
		74H10	
SL74H11	Rochester	RC3006	
		74H11	
SL74H20	Rochester	RC3010	
		74H20	
SL74H21	Rochester	RC3011	
		74H21	
SL74H22	Rochester	RC3012	
		74H22	
SL74H30	Rochester	RC3016	
		74H30	
SL74H40	Rochester	RC3024	
		74H40	
SL74H52	Rochester	RC3031	
		74H52	
SL74H53	Rochester	RC3032	
SL74H54	Rochester	RC3033	
		74H54	
SL74H55	Rochester	RC3034	
		74H55	
SL74H60	Rochester	RC3030	
		74H60	
SL74H62	Rochester	RC3018	
		74H62	
SL74H71	Rochester	RC3054	
		74H71	
SL74H72	Rochester	RC3035	
		74H72	
SL74H73	Rochester	74H73	
SL74H74	Rochester	RC3060	
		74H74	
SL74LS00	GoldStar	GD74LS00	
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
	TI	SN74LS00	
SL74LS01	Motorola	SN74LS01	
	SGS-Thomson	T74LS01	
		74LS01	
	TI	SN74LS01	
SL74LS02	GoldStar	GD74LS02	
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
	SGS-Thomson	T74LS02	
		74LS02	
	TI	SN74LS02	
SL74LS04	GoldStar	GD74LS04	
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
	TI	SN74LS04	
SL74LS05	GoldStar	GD74LS05	
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
	TI	SN74LS05	
SL74LS08	GoldStar	GD74LS08	
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
	TI	SN74LS08	
SL74LS09	GoldStar	GD74LS09	
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
	TI	SN74LS09	
SL74LS10	GoldStar	GD74LS10	
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
	TI	SN74LS10	
SL74LS107	GoldStar	GD74LS107A	
	Motorola	SN74LS107A	
	National	DM74LS107A	
	TI	SN74LS107A	
SL74LS109	GoldStar	GD74LS109A	
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
SL74LS11	GoldStar	GD74LS11	
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
	TI	SN74LS11	
SL74LS112	GoldStar	GD74LS112	
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
SL74LS113	Motorola	SN74LS113A	
	Rochester	74LS113	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
74LS113			(Cont'd)
	SGS-Thomson		
		T74LS113A	
	TI	SN74LS113A	
74LS125	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125A**	**(3674)**
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson		
		T74LS125A	
		74LS125A	
	TI	SN74LS125A	
74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125**	**(3674)**
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson		
		T74LS125A	
		74LS125A	
	TI	SN74LS125A	
74LS126A	Motorola	SN74LS126A	
	National	DM74LS126	
		74LS126	
	SGS-Thomson		
		T74LS126A	
		74LS126	
	TI	SN74LS126A	
L74LS13	Motorola	SN74LS13	
	National	74LS13	
	SGS-Thomson		
		T74LS13	
		74LS13	
	TI	SN74LS13	
L74LS132	GoldStar	GD74LS132	
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
	SGS-Thomson		
		T74LS132	
		74LS132	
	TI	SN74LS132	
L74LS136	Motorola	SN74LS136	
	National	74LS136	
	SGS-Thomson		
		T74LS136	
		74LS136	
	TI	SN74LS136	
L74LS138	GoldStar	GD74LS138	
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
	SGS-Thomson		
		T74LS138	
		74LS138	
	TI	SN74LS138	
L74LS139	GoldStar	GD74LS139	
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
	SGS-Thomson		
		T74LS139	
		74LS139	
	TI	SN74LS139A	
SL74LS14	GoldStar	GD74LS14	
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
	SGS-Thomson		
		T74LS14	
		74LS14	
	TI	SN74LS14	
SL74LS151	GoldStar	GD74LS151	
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
	SGS-Thomson		
		T74LS151	
		74LS151	
	TI	SN74LS151	
SL74LS153	GoldStar	GD74LS153	
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
	SGS-Thomson		
		T74LS153	
		74LS153	
	TI	SN74LS153	
SL74LS155	GoldStar	GD74LS155	
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
	SGS-Thomson		
		T74LS155	
		74LS155	
	TI	SN74LS155A	
SL74LS156	Motorola	SN74LS156	
	National	DM74LS156	
		74LS156	
	SGS-Thomson		
		T74LS156	
		74LS156	
	TI	SN74LS156	
SL74LS157	GoldStar	GD74LS157	
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
	SGS-Thomson		
		T74LS157	
		74LS157	
	TI	SN74LS157	
SL74LS158	GoldStar	GD74LS158	
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
	Rochester	74LS158	
	SGS-Thomson		
		T74LS158	
		74LS158	
	TI	SN74LS158	
SL74LS160A	Motorola	SN74LS160A	
	National	74LS160	
	SGS-Thomson		
		T74LS160A	
	TI	SN74LS160A	
SL74LS161A	GoldStar	GD74LS161A	
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
	SGS-Thomson		
		T74LS161A	
	TI	SN74LS161A	
SL74LS162A	Motorola	SN74LS162A	
	National	74LS162	
	SGS-Thomson		
		T74LS162A	
	TI	SN74LS162A	
SL74LS163A	GoldStar	GD74LS163A	
	Motorola	SN74LS163A	
	National	DM74LS163A	
		74LS163	
	SGS-Thomson		
		T74LS163A	
	TI	SN74LS163A	
SL74LS164	GoldStar	GD74LS164	
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
	SGS-Thomson		
		T74LS164	
		74LS164	
	TI	SN74LS164	
SL74LS169A	Motorola	SN74LS169	
	National	DM74LS169A	
		74LS169	
	Rochester	74LS169	
	SGS-Thomson		
		T74LS169	
		74LS169	
	TI	SN74LS169B	
SL74LS170	TI	SN74LS170	
SL74LS173	Motorola	SN74LS173A	
	National	74LS173A	
	TI	SN74LS173A	
SL74LS174	GoldStar	GD74LS174	
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
	SGS-Thomson		
		T74LS174	
		74LS174	
	TI	SN74LS174	
SL74LS175	GoldStar	GD74LS175	
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
	SGS-Thomson		
		T74LS175	
		74LS175	
	TI	SN74LS175	
SL74LS181	TI	SN74LS181	
SL74LS191	GoldStar	GD74LS191	
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
	SGS-Thomson		
		T74LS191	
		74LS191	
	TI	SN74LS191	
SL74LS192	Motorola	SN74LS192	
	National	74LS192	
	SGS-Thomson		
		T74LS192	
		74LS192	
	TI	SN74LS192	
SL74LS193	GoldStar	GD74LS193	
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
	SGS-Thomson		
		T74LS193	
		74LS193	
	TI	SN74LS193	
SL74LS194A	GoldStar	GD74LS194A	
	Motorola	SN74LS194A	
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson		
		T74LS194A	
		74LS194	
	TI	SN74LS194A	
SL74LS197	Motorola	SN74LS197	
	National	74LS197	
	SGS-Thomson		
		T74LS197	
		74LS197	
	TI	SN74LS197	
SL74LS20	GoldStar	GD74LS20	
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
	Rochester	74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
	TI	SN74LS20	
SL74LS21	GoldStar	GD74LS21	
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
	Rochester	74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
	TI	SN74LS21	
SL74LS240	GoldStar	GD74LS240	
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
	SGS-Thomson		
		T74LS240	
		74LS240	
	TI	SN74LS240	
SL74LS241	GoldStar	GD74LS241	
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
	SGS-Thomson		
		T74LS241	
		74LS241	
	TI	SN74LS241	
SL74LS242	GoldStar	GD74LS242	
	Motorola	SN74LS242	
	TI	SN74LS242	
SL74LS243	GoldStar	GD74LS243	
	Motorola	SN74LS243	
	National	DM74LS243	
	TI	SN74LS243	
SL74LS244	GoldStar	GD74LS244	
	Motorola	SN74LS244	
	National	DM74LS244	
		74LS244	
	SGS-Thomson		
		T74LS244	
		74LS244	
	TI	SN74LS244	
SL74LS245	GoldStar	GD74LS245	
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
	Rochester	74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
	TI	SN74LS245	
SL74LS251	GoldStar	GD74LS251	
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
	Rochester	74LS251	
	SGS-Thomson		
		T74LS251	
		74LS251	
	TI	SN74LS251	
SL74LS253	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
	Rochester	74LS253	
	SGS-Thomson		
		T74LS253	
		74LS253	
	TI	SN74LS253	
SL74LS256	Motorola	SN74LS256	
	National	74LS256	
	SGS-Thomson		
		T74LS256	
		74LS256	
SL74LS257A	GoldStar	GD74LS257A	
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
	TI	SN74LS257B	
SL74LS258A	GoldStar	GD74LS258B	
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
		74LS258	
	Rochester	74LS258	
	SGS-Thomson		
		T74LS258A	
		74LS258	
	TI	SN74LS258B	
SL74LS259	GoldStar	GD74LS259	
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
	Rochester	74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
	TI	SN74LS259B	
SL74LS26	GoldStar	GD74LS26	
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
	TI	SN74LS26	
SL74LS266	Motorola	SN74LS266	
	National	74LS266	
	SGS-Thomson		
		T74LS266	
		74LS266	
	TI	SN74LS266	
SL74LS27	GoldStar	GD74LS27	
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
	Rochester	74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
	TI	SN74LS27	
SL74LS273	GoldStar	GD74LS273	
	Motorola	SN74LS273	
	National	74LS273	
	SGS-Thomson		
		T74LS273	
		74LS273	
	TI	SN74LS273	
SL74LS283	GoldStar	GD74LS283	
	Motorola	SN74LS283	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Lansdale Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SL74LS283			(Cont'd)
	National	DM74LS283	
		74LS283	
	SGS-Thomson	T74LS283	
		74LS283	
	TI	SN74LS283	
SL74LS295B	SGS-Thomson	T74LS295A	
		74LS295A	
	TI	SN74LS294	
		SN74LS295B	
SL74LS298	GoldStar	GD74LS298	
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson	T74LS298	
		74LS298	
	TI	SN74LS297	
		SN74LS298	
SL74LS30	GoldStar	GD74LS30	
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
	Rochester	74LS30	
	SGS-Thomson	T74LS30	
		74LS30	
	TI	SN74LS30	
SL74LS32	GoldStar	GD74LS32	
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson	T74LS32	
		74LS32	
	TI	SN74LS31	
		SN74LS32	
SL74LS33	Motorola	SN74LS33	
	National	74LS33	
	SGS-Thomson	T74LS33	
		74LS33	
	TI	SN74LS33	
SL74LS352	Motorola	SN74LS352	
	National	DM74LS352	
		74LS352	
	SGS-Thomson	T74LS352	
		74LS352	
	TI	SN74LS352	
SL74LS353	Motorola	SN74LS353	
	National	74LS353	
	SGS-Thomson	T74LS353	
		74LS353	
	TI	SN74LS353	
SL74LS365A	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
	Rochester	74LS365	
	SGS-Thomson	T74LS365A	
		74LS365A	
	TI	SN74LS365A	
SL74LS366A	GoldStar	GD74LS366A	
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
	SGS-Thomson	T74LS366A	
		74LS366A	
	TI	SN74LS366A	
SL74LS368A	GoldStar	GD74LS368A	
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
	Rochester	74LS368	
	SGS-Thomson	T74LS368A	
		74LS368A	
	TI	SN74LS368A	
SL74LS37	Motorola	SN74LS37	
	National	DM74LS37	
		74LS37	
	Rochester	74LS37	
	SGS-Thomson	T74LS37	
		74LS37	
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SL74LS37			(Cont'd)
	TI	SN74LS37	
SL74LS373	GoldStar	GD74LS373	
	Motorola	SN74LS373	
	National	DM74LS373	
		74LS373	
	SGS-Thomson	T74LS373	
		74LS373	
	TI	SN74LS373	
SL74LS374	GoldStar	GD74LS374	
	Motorola	SN74LS374	
	National	DM74LS374	
		74LS374	
	SGS-Thomson	T74LS374	
		74LS374	
	TI	SN74LS374	
SL74LS375	Motorola	SN74LS375	
	National	74LS375	
	TI	SN74LS375	
SL74LS377	GoldStar	GD74LS377	
	Motorola	SN74LS377	
	National	74LS377	
	SGS-Thomson	T74LS377	
		74LS377	
	TI	SN74LS377	
SL74LS378	Motorola	SN74LS378	
	National	74LS378	
	SGS-Thomson	T74LS378	
		74LS378	
	TI	SN74LS378	
SL74LS38	GoldStar	GD74LS38	
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	
	Rochester	74LS38	
	SGS-Thomson	T74LS38	
		74LS38	
	TI	SN74LS38	
SL74LS390	GoldStar	GD74LS390	
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson	T74LS390	
		74LS390	
	TI	SN74LS390	
SL74LS393	GoldStar	GD74LS393	
	Motorola	SN74LS393	
	National	DM74LS393	
		74LS393	
	SGS-Thomson	T74LS393	
		74LS393	
	TI	SN74LS393	
SL74LS395A	GoldStar	GD74LS395	
	Motorola	SN74LS395	
	National	74LS395	
	SGS-Thomson	T74LS395A	
		74LS395	
	TI	SN74LS395A	
SL74LS40	TI	SN74LS40	
SL74LS42	Rochester	734LS42	
	TI	SN74LS42	
SL74LS490	Motorola	SN74LS490	
	National	74LS490	
	SGS-Thomson	T74LS490	
		74LS490	
SL74LS51	GoldStar	GD74LS51	
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
		74LS51	
	TI	SN74LS51	
SL74LS533	National	74LS533	
	SGS-Thomson	T74LS533	
SL74LS534	National	74LS534	
	SGS-Thomson	T74LS534	
SL74LS54	Motorola	SN74LS54	
	National	74LS54	
	SGS-Thomson	T74LS54	
		74LS54	
			(Continued)
SL74LS54			(Cont'd)
	TI	SN74LS54	
SL74LS540	Motorola	SN74LS540	
	National	74LS540	
	SGS-Thomson	T74LS540	
	TI	SN74LS540	
SL74LS541	Motorola	SN74LS541	
	SGS-Thomson	T74LS541	
	TI	SN74LS541	
SL74LS569A	Motorola	SN74LS569A	
SL74LS620	TI	SN74LS613	
SL74LS623	Motorola	SN74LS623	
	Rochester	74LS623	
	TI	SN74LS623	
SL74LS640	GoldStar	GD74LS640	
		GD74LS640-1	
	Lansdale	**SL74LS640-1**	**(3674)**
	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
SL74LS640-1	GoldStar	GD74LS640	
		GD74LS640-1	
	Lansdale	**SL74LS640**	**(3674)**
	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
SL74LS641	**Lansdale**	**SL74LS641-1**	**(3674)**
	Motorola	SN74LS641	
	TI	SN74LS641	
		SN74LS641-1	
SL74LS641-1	**Lansdale**	**SL74LS641**	**(3674)**
	Motorola	SN74LS641	
	TI	SN74LS641	
		SN74LS641-1	
SL74LS642	**Lansdale**	**SL74LS642-1**	**(3674)**
	Motorola	SN74LS642	
	TI	SN74LS642	
		SN74LS642-1	
SL74LS642-1	**Lansdale**	**SL74LS642**	**(3674)**
	Motorola	SN74LS642	
	TI	SN74LS642	
		SN74LS642-1	
SL74LS645	**Lansdale**	**SL74LS645-1**	**(3674)**
	Motorola	SN74LS645	
	SGS-Thomson	T74LS645	
	TI	SN74LS645	
		SN74LS645-1	
SL74LS645-1	**Lansdale**	**SL74LS645**	**(3674)**
	Motorola	SN74LS645	
	SGS-Thomson	T74LS645	
	TI	SN74LS645	
		SN74LS645-1	
SL74LS670	GoldStar	GD74LS670	
	Motorola	SN74LS670	
	National	DM74LS670	
		74LS670	
	Rochester	74LS670	
	SGS-Thomson	T74LS670	
		74LS670	
	TI	SN74LS670	
SL74LS73	GoldStar	GD74LS73A	
	Motorola	SN74LS73A	
	National	DM74LS73A	
	TI	SN74LS73A	
SL74LS74A	GoldStar	GD74LS74A	
	Motorola	SN74LS74A	
	National	DM74LS74	
		74LS74	
	Rochester	74LS74	
	SGS-Thomson	T74LS74A	
		74LS74	
	TI	SN74LS74A	
SL74LS75	Motorola	SN74LS748	
		SN74LS75	
	National	DM74LS75	
	Rochester	74LS75	
	SGS-Thomson	T74LS75	
	TI	SN74LS75	
SL74LS76	Motorola	SN74LS76A	
	SGS-Thomson	T74LS75B1	
	TI	SN74LS76A	
			(Continued)
SL74LS83A	Motorola	SN74LS83A	
	National	DM74LS83A	
		74LS83	
	Rochester	74LS83	
	SGS-Thomson	T74LS83A	
		74LS83A	
	TI	SN74LS83A	
SL74LS85	GoldStar	GD74LS85	
	Motorola	SN74LS848	
		SN74LS85	
	National	DM74LS85	
		74LS85	
	Rochester	74LS85	
	TI	SN74LS85	
SL74LS86	GoldStar	GD74LS86	
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
	Rochester	74LS86	
	SGS-Thomson	T74LS86	
		74LS86	
	TI	SN74LS86A	
SL74LS90	GoldStar	GD74LS90	
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson	T74LS90	
		74LS90	
	TI	SN74LS90	
SL74LS92	GoldStar	GD74LS92	
	Motorola	SN74LS92	
	SGS-Thomson	T74LS92	
	TI	SN74LS92	
SL74LS93	GoldStar	GD74LS93	
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	T74LS93	
		74LS93	
	TI	SN74LS93	
SL74LS95B	GoldStar	GD74LS95B	
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson	T74LS93B1	
		T74LS95B	
		74LS95B	
	TI	SN74LS95B	
SL74LS96	TI	SN74LS96	
SL74S00	GoldStar	GD74S00	
	National	DM74S00	
		74S00	
	TI	SN74S00	
SL74S02	GoldStar	GD74S02	
	National	DM74S02	
		74S02	
	TI	SN74S02	
SL74S03	National	DM74S03	
		74S03	
	Rochester	74S03	
	TI	SN74S03	
SL74S04	GoldStar	GD74S04	
	National	DM74S04	
		74S04	
	Rochester	74S04	
	TI	SN74S04	
SL74S05	GoldStar	GD74S05	
	National	DM74S05	
		74S05	
	Rochester	74S05	
	TI	SN74S05	
SL74S08	GoldStar	GD74S08	
	National	DM74S08	
		74S08	
	TI	SN74S08	
SL74S10	GoldStar	GD74S10	
	National	DM74S10	
		74S10	
	TI	SN74S10	
SL74S11	National	DM74S11	
		74S109	
		74S11	
	Rochester	74S11	
	TI	SN74S11	
SL74S112	GoldStar	GD74S112	
	National	DM74S112	
		74S112	
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SL74S112			(Cont'd)
	Rochester	74S112	
	TI	SN74S112	
SL74S113	Rochester	74S113	
	TI	SN74S113	
SL74S133	GoldStar	GD74S133	
	National	DM74S133	
		74S133	
	Rochester	74S133	
	TI	SN74S133	
SL74S134	Rochester	74S134	
	TI	SN74S134	
SL74S135	Rochester	74S135	
	TI	SN74S135	
SL74S138	GoldStar	GD74S138	
	National	DM74S138	
		74S138	
	TI	SN74S138	
SL74S139	GoldStar	GD74S139	
	National	DM74S139	
		74S139	
	Rochester	74S139	
	TI	SN74S139	
SL74S140	National	DM74S140	
	TI	SN74S140	
SL74S151	National	DM74S151	
		74S151	
	Rochester	74S151	
	TI	SN74S151	
SL74S153	GoldStar	GD74S153	
	National	DM74S153	
		74S153	
	Rochester	74S153	
	TI	SN74S153	
SL74S157	GoldStar	GD74S157	
	National	DM74S157	
		74S157	
	Rochester	74S157	
	TI	SN74S157	
SL74S158	GoldStar	GD74S158	
	National	DM74S158	
		74S158	
	Rochester	74S158	
	TI	SN74S158	
SL74S174	GoldStar	GD74S174	
	National	DM74S174	
		74S174	
	Rochester	74S174	
	TI	SN74S174	
SL74S175	GoldStar	GD74S175	
	National	DM74S175	
		74S175	
	TI	SN74S175	
SL74S181	TI	SN74S181	
SL74S182	TI	SN74S182	
SL74S189	Cypress	CY74S189-35C	
	National	DM74S189	
		DM74S189A	
	TI	SN74S189	
SL74S194	National	DM74S194	
		74S194	
	Rochester	74S194	
	TI	SN74S194	
SL74S195	National	DM74S195	
	TI	SN74S195	
SL74S20	GoldStar	GD74S20	
	National	DM74S20	
		74S20	
	Rochester	74S20	
	TI	SN74S20	
SL74S225	TI	SN74S225	
SL74S240	GoldStar	GD74S240	
	National	DM74S240	
	TI	SN74S240	
SL74S241	GoldStar	GD74S241	
	National	DM74S241	
	TI	SN74S241	
SL74S244	GoldStar	GD74S244	
	TI	SN74S244	
SL74S251	GoldStar	GD74S251	
	National	DM74S251	
	TI	SN74S251	
SL74S253	National	DM74S253	
		74S253	
	TI	SN74S253	
SL74S257	GoldStar	GD74S257	
	National	DM74S257	
		74S257	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SL74S257			(Cont'd)
	Rochester	74S257	
	TI	SN74S257	
SL74S258	National	DM74S258	
		74S258	
	Rochester	74S258	
	TI	SN74S258	
SL74S260	Rochester	74S260	
	TI	SN74S260	
SL74S280	GoldStar	GD74S280	
	National	DM74S280	
	TI	SN74S280	
SL74S32	GoldStar	GD74S32	
	National	DM74S32	
		74S32	
	TI	SN74S32	
SL74S37	TI	SN74S37	
SL74S373	National	DM74S373	
	TI	SN74S373	
SL74S374	GoldStar	GD74S374	
	National	DM74S374	
	TI	SN74S374	
SL74S38	TI	SN74S38	
SL74S40	National	DM74S40	
		74S40	
	TI	SN74S40	
SL74S51	GoldStar	GD74S51	
	National	DM74S51	
		74S51	
	TI	SN74S482	
		SN74S51	
SL74S534	AMD	AM74S534	
SL74S64	GoldStar	GD74S64	
	National	DM74S64	
		74S64	
	Rochester	74S64	
	TI	SN74S64	
SL74S74	GoldStar	GD74S74	
	National	DM74S74	
		74S74	
	Rochester	74S74	
	TI	SN74S74	
SL74S85	GoldStar	GD74S85	
	TI	SN74S85	
SL74S86	GoldStar	GD74S86	
	National	DM74S86	
		74S86	
	Rochester	74S86	
	TI	SN74S86	
SL7400	TI	SN7400	
SL7403	TI	SN7403	
SL7404	TI	SN7404	
SL7405	TI	SN7405	
SL7406	TI	SN7406	
SL7407	TI	SN7407	
SL7408	TI	SN7408	
SL7410	TI	SN7410	
SL74107	TI	SN74107	
SL74121	TI	SN74121	
SL74123	TI	SN74123	
SL74125	TI	SN74125	
SL74126	TI	SN74126	
SL7413	TI	SN7413	
SL74132	TI	SN74132	
SL7414	TI	SN7414	
SL74145	TI	SN74145	
SL74148	TI	SN74148	
SL74150	TI	SN74150	
SL74151	TI	SN74151	
SL74153	TI	SN74153	
SL74154	TI	SN74154	
SL74155	TI	SN74155	
SL74156	TI	SN74156	
SL74157	TI	SN74157	
SL7416	TI	SN7416	
SL74160	TI	SN74160	
SL74161	TI	SN74161	
SL74163	TI	SN74163	
SL74164	TI	SN74164	
SL74165	TI	SN74165	
SL74166	TI	SN74166	
SL7417	TI	SN7417	
SL74173	TI	SN74173	
SL74174	TI	SN74174	
SL74175	TI	SN74175	
SL74180	TI	SN74180	
SL74181	TI	SN74181	
SL74190	TI	SN74190	
SL74191	TI	SN74191	
SL74192	TI	SL74192	
SL74193	TI	SN74193	
SL74194	TI	SN74194	
SL74195	TI	SN74195	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SL74199	TI	SN74199	
SL7420	TI	SN7420	
SL7421	TI	SN7421	
SL74221	TI	SN74221	
SL7425	TI	SN7425	
SL7426	TI	SN7426	
SL7427	TI	SN7427	
SL74279	TI	SN74279	
SL74298	TI	SN74298	
SL7430	TI	SN7430	
SL7432	TI	SN7432	
SL74368A	TI	SN74368	
SL7437	TI	SN7437	
SL7438	TI	SN7438	
SL7440	TI	SN7440	
SL7442	TI	SN7442	
SL7445	TI	SN7445	
SL7450	TI	SN7450	
SL7451	TI	SN7451	
SL7473	TI	SN7473	
SL7474	TI	SN7474	
SL7475	TI	SN7475	
SL7476	TI	SN7476	
SL7486	TI	SN7486	
SL7490	TI	SN7490	
SL7492	TI	SN7492	
SL7493	TI	SN7493	
SL7494	TI	SN7494	
SL7495	TI	SN7495	
SL7496	TI	SN7496	
54LS139	GoldStar	GD54LS139	
	Motorola	SN54LS139	
	National	DM54LS139	
		54LS139	
	SGS-Thomson	T54LS139	
		54LS139	
	TI	SN54LS139A	

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GAL16V8	AMD	AMPAL16L8	
		AMPAL16R4	
		AMPAL16R6	
		AMPAL16R8	
		AMPAL18P8	
		PALCE16V8	
		PALC16L8	
		PALC16R4	
		PALC16R6	
		PALC16R8	
		PALC18U8	
		PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16H2	
		PAL16L2	
		PAL16L8	
		PAL16P8	
		PAL16RP4	
		PAL16RP6	
		PAL16RP8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
	Allegro Micro	SPL14LC8	
		SPL16LC8	
		SPL16RC4	
		SPL16RC6	
		SPL16RC8	
	Altera	EP310	
		EP320	
		EP330	
	ATMEL	ATF16V8	
	Cypress	CYPALC16L8	
		CYPALC16R4	
		CYPALC16R6	
		CYPALC16R8	
		PALC16L8	
		PALC16R4	
		PALC16R6	
		PALC16R8	
		PLDC18G8	
	Harris	HPL16LC8	
		HPL16RC4	
		HPL16RC6	
		HPL16RC8	

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Manufacturer Device	Replacement Source	Device	IC Master Page
GAL16V8			(Cont'd)
	Intel	5C031	
		5C032	
		85C220	
	ICT	PEEL153	
		PEEL18CV8	
		PEEL253	
	National	GAL16V8	
		PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16H2	
		PAL16L2	
		PAL16L8	
		PAL16R4	
		PAL16R6	
		PAL16R8	
	Philips	PHD16N8	
		PLHS16L8	
		PLHS18P8	
		PLS153	
		PLUS16L8	
		PLUS16R4	
		PLUS16R6	
		PLUS16R8	
	Ricoh	EPL10P8	
		EPL12P6	
		EPL14P4	
		EPL16P2	
		EPL16P8	
		EPL16RP4	
		EPL16RP6	
		EPL16RP8	
	Samsung	CPL16L8	
		CPL16R4	
		CPL16R6	
		CPL16R8	
	SGS-Thomson	GAL16V8	
	TI	EP330	
		TIBPAD16N8	
		TIBPAL16L8	
		TIBPAL16R4	
		TIBPAL16R6	
		TIBPAL16R8	
		TICPAL16L8	
		TICPAL16R4	
		TICPAL16R6	
		TICPAL16R8	
GAL18V10	AMD	AMPAL18P8	
		PALC18U8	
	Altera	EP310	
		EP320	
		EP330	
	American Micro	**PEEL153**	**(3503)**
	Cypress	PLDC18G8	
	Intel	5C031	
		5C032	
		85C220	
	ICT	PEEL153	
		PEEL18CV8	
		PEEL253	
	National	GAL18V10	
	Philips	PHD16N8	
		PLHS18P8	
		PLS153	
	TI	EP330	
		TIBPAD16N8	
GAL20RA10	AMD	PAL20RA10	
	Cypress	CYPLDC20RA10	
		PLD20RA10	
	Intel	PLD610	
		85C060	
	National	PAL20RA10	
GAL20V8	AMD	AMPAL20RP4	
		AMPAL20RP6	
		AMPAL20RP8	
		PALCE20V8	
		PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	Allegro Micro	SPL18LC4	
		SPL20LC2	

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GAL20V8	Allegro Micro		(Cont'd)
		SPL20LC8	
		SPL20RC4	
		SPL20RC6	
		SPL20RC8	
	ATMEL	ATF20V8	
	Cypress	CYPLDC20G10	
		PALC20CG10	
		PALC22V10	
		PAL22V10	
	Intel	85C224	
	ICT	PEEL20CG10	
		PEEL22CV10	
	National	PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
		PAL20P8	
		PAL20RP4	
		PAL20RP6	
		PAL20RP8	
		PAL20R4	
		PAL20R6	
		PAL20R8	
	Philips	PLUS20L8	
		PLUS20R4	
		PLUS20R6	
		PLUS20R8	
	Samsung	CPL20L8	
		CPL20R4	
		CPL20R6	
		CPL20R8	
	SGS-Thomson	GAL20V8	
	TI	TIBPAL20L8	
		TIBPAL20R4	
		TIBPAL20R6	
		TIBPAL20R8	
GAL22V10	AMD	AMPAL20L10	
		AMPAL20RP10	
		AMPAL22V10	
		PALCE22V10	
		PALC22V10	
		PAL20L10	
		PAL20RS10	
		PAL20RS4	
		PAL20RS8	
		PAL20S10	
		PAL20X10	
		PAL20X4	
		PAL20X8	
		PAL22V10	
	ATMEL	ATF22V10	
		AT22V10	
	Cypress	CYPAL22V10	
		PALC20CG10	
		PALC22V10	
		PAL22V10	
	Intel	PLD22V10	
		82C224	
		85C22V10	
	ICT	PEEL20CG10	
		PEEL22CV10	
	National	GAL22V10	
		PAL20L10	
		PAL20X10	
		PAL20X4	
		PAL20X8	
	TI	TIBPAL22V10	
		TICPAL22V10	
GAL26CV12	AMD	PALCE24V10	
		PALCE26V12	
	Cypress	CYPAL22V10	
	National	GAL26CV12	
GAL6001	National	GAL6001	
	SGS-Thomson	GAL39V18	
LM108	AD	PM1008	
	Raytheon	LM108	
LM108AH/883	TI	LM108ALB	
LM108AJ8/883	TI	LM108AJGB	
LM108H/883	TI	LM108LB	
LM108J8/883	TI	LM108JGB	
LM118J8/883	TI	LM118JGB	
LM118LH/883	TI	LM118LB	
LM307	AD	OP02	
LM308	AD	PM308	
LTC1099	Crystal	CS7280	
LT1013MJ8/883	TI	LT1013	
LT1028MH/883	TI	LT1028	
♦ LT699	Maxim	MAX699	
ML107	AD	OP02	
MT85C1664	Cypress	CYM1620	
OP07	Raytheon	OP07	
OP237	**AD**	**SSM2139**	**(3529)**
OP27	AD	OP27	
	Raytheon	OP27	
OP27AJ8/883	TI	OP27A	
OP27CJ8/883	TI	OP27C	
OP37	AD	OP37	
	Raytheon	OP37	
OP37AJ8/883	TI	OP37A	
OP37CJ8/883	TI	OP37C	
OP400	AD	OP400	
SR16K4	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
SR256K4	Toshiba	TC55464	
SR256K8	NEC	μPD43256	
SR64E4	Toshiba	TC55417	
SR64K	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
SR64K1	Toshiba	TC5561	
		TC5562	
SR64K4	**Krueger**	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	Toshiba	TC55416	
SR64K8	Toshiba	TC5588	
ST16K4	Cypress	CY7C168	
ST16K8	Cypress	CY7C128	
ST64E4	Cypress	CY7C155	
		CY7C166	
ST64K1	Cypress	CY7C187	
ST64K4	Cypress	CY7C164	
ST64K8	Cypress	CY7C186	
		CY7C264	
16CV8	**American Micro**	**PEEL18CV8**	**(3503)**
20V8	American Micro	PEEL173	

Level One

Manufacturer Device	Replacement Source	Device	IC Master Page
LTX901	AT&T	T7213	
LTX902	AT&T	T7220A	
LXP2175	Dallas	DS2175	
		DS2181	
LXP2176	Dallas	DS2176	
LXP2180	Crystal	CS2180	
	Dallas	DS2180	
LXT300	Crystal	CS61574	
LXT301	Crystal	CS6158	
LXT304	Crystal	CS61574	
LXT305	Crystal	CS61534	
		CS61535	
LXT901	**Fujitsu**	**MB86961**	**(3632)**
LXT902	Fujitsu	MB86962	

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Manufacturer Device	Replacement Source	Device	IC Master Page
LSOP07	AD	LSOP07	
	MicroPwr	MPOP07	
	National	LM101	
		LM201	
		LM207	
		LM301	
		LM307	
		LM308	
		LM607	
		LM725	
		LM741	
LSOP27	AD	LSOP27	
	MicroPwr	MPOP27	
LSOP37	AD	LSOP37	
	MicroPwr	MPOP37	
LSU401	Harris	U401	
	National	U401	
	Siliconix	U401	
LSU402	Harris	U402	
	National	U402	
	Siliconix	U402	
LSU403	Harris	U403	
	National	U403	
	Siliconix	U403	
LSU404	Harris	U404	
	National	U404	
	Siliconix	U404	
LS1009	National	LM136	
		LM136-2.5	
		LM185-2.5	
		LM236-2.5	
		LM285-2.5	
		LM336	
		LM336-2.5	
		LM385-2.5	
LS120	Harris	IT120	
LS120A	Harris	IT120A	
LS121	Harris	IT121	
LS122	Harris	IT122	
LS124	Harris	IT124	
LS130	Harris	IT130	
LS301	MicroPwr	MP301	
LS302	MicroPwr	MP302	
LS303	MicroPwr	MP303	
LS310	MicroPwr	MP310	
LS311	Harris	IT129	
	MicroPwr	MP311	
	Motorola	MD7000	
		MD7002	
		MD7004	
		MD7007	
		MD708	
		MD8003	
		MD918	
		2N2060A	
		2N2060B	
		2N2223A	
		2N2333	
		2N2453	
		2N2453A	
		2N2480	
		2N2480A	
		2N2640	
		2N2641	
		2N2642	
		2N2643	
		2N2644	
		2N3045	
		2N3046	
		2N3047	
		2N3048	
		2N5793	
		2N5794	
LS312	AD	MAT01	
		MAT02	
	Harris	IT126	
		IT127	
		IT128	
		2N4044	
		2N4045	
		2N4100	
		2N4880	
	MicroPwr	MP312	
	Motorola	MD8001	
		MD8002	
		2N2060	
		2N2639	
		2N2652	
		2N2652A	
		2N2721	
		2N2915A	
		2N2916A	
		2N2919A	
		2N4016	
	National	LM114	
		LM114A	
		LM115	
		LM194	
		LM394	
LS313	MicroPwr	MP313	
LS318	MicroPwr	MP318	
LS350	MicroPwr	MP350	
LS351	Harris	IT131	
		IT132	
		IT138	
		IT139	
		2N5119	
	MicroPwr	MP351	
		MP361	
	Motorola	MD5000	
		MD7001	
		MD7003	
		MD982	
		MD984	
LS351	Motorola		(Con
		2N3726	
		2N3812	
		2N3813	
		2N3814	
		2N3815	
		2N4937	
		2N4938	
		2N4940	
		2N4941	
		2N4942	
		2N5795	
		2N5796	
LS352	Harris	IT130A	
		IT136	
		IT137	
		2N3810	
		2N3810A	
		2N3811	
		2N3811A	
		2N5117	
		2N5118	
	MicroPwr	MP352	
		MP362	
	Motorola	2N3727	
		2N3806	
		2N3807	
		2N3808	
		2N3809	
		2N3810	
		2N3810A	
		2N3811	
		2N3811A	
		2N3816	
		2N3816A	
		2N3817	
		2N3817A	
LS358	**AD**	**MAT03**	**(35**
	MicroPwr	MP358	
LS360	MicroPwr	MP360	
LS3954	Harris	2N3954	
		2N3955A	
	MicroPwr	MP3954	
	National	2N3954	
		2N3955A	
		2N4082	
	Siliconix	2N3954	
		2N3955A	
LS3954A	Harris	2N3954	
	MicroPwr	2N3954A	
	National	2N3954A	
	Siliconix	2N3954A	
LS3955	Harris	2N3955	
	MicroPwr	MP3955	
	National	NPD8302	
		2N3955	
		2N3957	
		2N4083	
	Siliconix	2N3955	
LS3956	Harris	2N3956	
		2N3957	
	MicroPwr	MP3956	
	National	NPD8303	
		2N3956	
	Siliconix	2N3956	
		2N3957	
LS3958	Harris	2N3958	
	MicroPwr	MP3958	
	National	2N3958	
	Siliconix	2N3958	
LS404	Harris	HA5104	
LS4391	Siliconix	DN5564	
		DN5565	
		DN5566	
		DN5567	
LS5010	AD	AD589	
	Harris	ICL8069	
	MicroPwr	MP5010	
	National	LM113	
		LM185	
		LM285	
		LM313	
		LM385	
LS508A	Harris	HI508A	
	MicroPwr	MP7501	
		MP7503	
		MP7508	
LS5905	Harris	2N5905	
	MicroPwr	MP5905	
	National	2N5905	
	Siliconix	2N5905	
LS5906	Harris	2N5906	
	MicroPwr	MP5906	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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ufacturer ce	Replacement Source	Device	IC Master Page
906			(Cont'd)
	National	2N5906	
	Siliconix	2N5906	
907	Harris	2N5907	
	MicroPwr	MP5907	
	National	2N5907	
	Siliconix	2N5907	
908	Harris	2N5908	
	MicroPwr	MP5908	
	National	2N5908	
	Siliconix	2N5908	
909	Harris	2N5909	
	MicroPwr	MP5909	
	National	2N5909	
	Siliconix	2N5909	
911	Harris	IT5911	
		2N5911	
	MicroPwr	MP5911	
	National	2N5911	
	Siliconix	M440	
		M441	
		M5911	
		U440	
		U443	
		2N5564	
		2N5565	
		2N5911	
5912	Harris	IT5912	
		2N5912	
	MicroPwr	MP5912	
	National	U441	
		2N5912	
	Siliconix	M5912	
		U441	
		U444	
		2N5566	
		2N5912	
5912C	Harris	IT550	
	MicroPwr	MP5912C	
830	Harris	2N5902	
		2N5903	
		2N5904	
	MicroPwr	MP830	
	National	2N5902	
		2N5903	
		2N5904	
	Siliconix	2N5902	
		2N5903	
		2N5904	
831	MicroPwr	MP831	
832	MicroPwr	MP832	
	National	NDF9406	
		NDF9407	
		NDF9408	
		NDF9409	
		NDF9410	
	Siliconix	U427	
833	MicroPwr	MP833	
	Siliconix	U428	
840	Harris	2N5196	
		2N5452	
		2N5453	
		2N5454	
		2N5515	
		2N5520	
	MicroPwr	MP840	
	National	2N5045	
		2N5046	
		2N5047	
		2N5196	
		2N5452	
		2N5453	
		2N5454	
		2N5515	
		2N5520	
		2N5545	
	Siliconix	2N5045	
		2N5046	
		2N5047	
		2N5196	
		2N5452	
		2N5453	
		2N5454	
		2N5515	
		2N5520	
		2N5545	
S841	Harris	2N5197	
		2N5198	
		2N5516	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LS841	Harris		(Cont'd)
		2N5517	
		2N5521	
		2N5522	
	MicroPwr	MP841	
	National	2N5197	
		2N5198	
		2N5516	
		2N5517	
		2N5521	
		2N5522	
		2N5546	
		2N5547	
	Siliconix	SST410	
		U410	
		U411	
		2N5197	
		2N5198	
		2N5516	
		2N5517	
		2N5521	
		2N5522	
		2N5546	
		2N5547	
LS842	Harris	2N5199	
		2N5518	
		2N5519	
		2N5523	
		2N5524	
	MicroPwr	MP842	
	Motorola	2N3436	
		2N3437	
		2N3438	
		2N3458	
		2N3459	
		2N3460	
	National	2N5199	
		2N5518	
		2N5519	
		2N5523	
		2N5524	
	Siliconix	SST412	
		2N5199	
		2N5518	
		2N5519	
		2N5523	
		2N5524	
LS843	MicroPwr	MP843	
LS844	Harris	IT500	
		IT501	
		IT502	
		2N3921	
		2N3922	
		2N6483	
		2N6484	
	MicroPwr	MP844	
	National	2N3921	
		2N3922	
		2N6483	
		2N6484	
	Siliconix	2N6905	
		2N6906	
LS845	Harris	IT503	
		IT504	
		IT505	
		U405	
		U406	
		2N6485	
	MicroPwr	MP845	
	National	U405	
		U406	
		2N4084	
		2N4085	
		2N6485	
	Siliconix	SST404	
		SST405	
		SST406	
		U405	
		U406	
		2N4084	
		2N4085	
		2N6907	
OP37	Harris	HA5137	

Linear Technology Corp.

Manufacturer Device	Replacement Source	Device	IC Master Page
AD581	National	LH0070	
ICL8069	GEC Plessey	REF12	
LF1055	AMD	LF155	
	AD	PM155	
	Harris	LF155	
	Motorola	LF155	
	National	LF155	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LF155	AMD	LF155	
	AD	PM155	
	Burr-Brown	OPA156A	
	Harris	LF155	
	Motorola	LF155	
	National	LF155	
LF155A	National	LF155A	
LF156	AMD	LF156	
	AD	PM156	
	Burr-Brown	OPA156A	
	Harris	LF156	
	Motorola	LF156	
	National	LF156	
LF156A	National	LF156A	
LF198	AMD	LF198	
	Harris	HA2420	
	National	LF198	
LF198A	National	LF198A	
LF355	AMD	LF355	
	AD	PM355	
	Harris	LF355	
	Motorola	LF355	
	National	LF355	
LF355A	National	LF355A	
LF356	AMD	LF356	
	AD	PM356	
	Harris	LF356	
	Motorola	LF356	
	National	LF356	
LF356A	National	LF356A	
LF398	AMD	LF398	
	National	LF398	
	Philips	LF398	
LF398A	National	LF398A	
LF412	Harris	CA3140	
		CA3240	
	Motorola	LF412	
	National	LF412	
LF412A	National	LF412A	
LH0070	National	LH0070	
LH2108	AD	PM2108	
	Harris	LH2108	
	National	LH2108	
LH2108A	National	LH2108A	
LM10	Gennum	GC810	
	National	LM10	
LM1008	Motorola	LM111	
LM1009	National	LM136	
LM101	AD	AD101	
	Harris	LM101	
	Linfinity Micro	SG101	
	Motorola	LM101	
	National	μA101	
		LM101	
	Philips	LM101	
	Raytheon	LM101	
	TI	LM101	
LM101A	National	LM101A	
LM1014	Raytheon	LM148	
LM107	Harris	LM107	
	Linfinity Micro	SG107	
	Motorola	LM107	
		MC1741	
	National	μA107	
		LM107	
	Raytheon	LM107	
	TI	LM107	
LM108	AMD	LM108	
	AD	PM108	
	Harris	LM108	
	Linfinity Micro	SG108	
	Motorola	LM108	
	National	μA108	
		LM108	
	TI	LM108	
LM108A	National	LM108A	
LM111	AMD	LM111	
	Harris	LM111	
	Linfinity Micro	SG111	
	Motorola	LM111	
	National	μA111	
		LM111	
	Philips	LM111	
	Raytheon	LM111	
	TI	LM111	
LM117	Linfinity Micro	SG117	
	Motorola	LM117	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM117			(Cont'd)
	National	μA117	
		LM117	
	Unitrode	UC117	
LM118	AMD	LM118	
	AD	AD518	
	Harris	HA2510	
		HA2512	
	Motorola	MC1741	
	National	LM118	
LM119	AMD	LM119	
	National	LM119	
	Philips	LM119	
LM123	Linfinity Micro	SG123	
	Motorola	LM123	
	National	LM123	
		SH123	
LM129	National	LM129	
LM129A	National	LM129A	
LM134	National	LM134	
LM136	GEC Plessey	ZNREF025	
	National	LM136	
LM137	Linfinity Micro	SG137	
	Motorola	LM137	
	National	LM137	
	Unitrode	UC137	
LM138	Linfinity Micro	SG138	
	National	LM138	
LM150	Linfinity Micro	SG150	
	Motorola	LM150	
	National	LM150	
	Unitrode	UC150	
LM185	Harris	ICL8069	
	National	LM185	
	TI	LM185	
LM185-1.2	GEC Plessey	ZN423	
LM199	National	LM199	
LM234	National	LM234	
LM236-5	GEC Plessey	ZNREF050	
LM268-5	GEC Plessey	ZNREF050	
LM301	Linfinity Micro	SG301	
	Motorola	LM301	
LM307	Linfinity Micro	SG307	
	Motorola	LM307	
LM308	AMD	LM308	
	AD	PM308	
	Motorola	LM308	
	National	μA308	
		LM308	
LM308A	National	LM308A	
LM311	AMD	LM311	
	Linfinity Micro	SG311	
	Motorola	LM311	
	National	μA311	
		LM311	
	Philips	LM311	
	Raytheon	LM311	
	TI	LM311	
LM317	Linfinity Micro	SG317	
	Motorola	LM317	
	National	μA317	
		LM317	
	TI	LM317	
	Unitrode	UC317	
LM318	AMD	LM318	
	Harris	HA2515	
	Motorola	MC1741	
	National	μA318	
		LM318	
	TI	LM318	
LM319	AMD	LM319	
	National	LM319	
LM323	Linfinity Micro	SG323	
	Motorola	LM323	
		MC78T05	
	National	LM323	
	TI	LM323	
LM329	National	LM329	
LM329A	National	LM329A	
LM334	National	LM334	
LM335-2.5	GEC Plessey	REF25	
LM336	National	LM336	
LM336-2.5	GEC Plessey	REF25	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Linear Technology Corp. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM337	Linfinity Micro	SG337	
	Motorola	LM337	
	National	LM337	
	TI	LM337	
	Unitrode	UC337	
LM338	Linfinity Micro	SG338	
	National	LM338	
LM350	Linfinity Micro	SG350	
	Motorola	LM350	
	National	LM350	
	TI	LM350	
	Unitrode	UC350	
LM385	Astec Semi	AS1004	
	Harris	ICL8069	
	National	LM385	
	TeledyneC	TSC04	
		TSC05	
		TSC9491	
	TI	LM385	
LM385-1.2	GEC Plessey	ZN423	
LM399	National	LM339	
		LM399	
LM399A	National	LM399A	
LTC1044	**Harris**	**ICL7660**	**(3638)**
		ICL7660S	**(3638)**
	Maxim	ICL7660	
	Siliconix	SI7660	
	TeledyneC	TC7660	
		TSC7660	
	TI	LTC1044	
LTC1046	TeledyneC	TSC962	
LTC1050	Harris	ICL7650	
		ICL7650S	
	Maxim	MAX430	
		MAX432	
	TeledyneC	TSC7650	
		TSC911	
LTC1051	TeledyneC	TSC913	
LTC1052	Harris	ICL7650	
		ICL7652	
	Maxim	ICL7650	
	TeledyneC	TC7652	
		TSC7652	
	TI	LTC1052	
		TLC2652	
		TLC2654	
LTC1053	TeledyneC	TSC914	
LTC1054	**Harris**	**ICL7660**	**(3638)**
LTC1059	National	MF5	
LTC1060	Exar	XR1010	
		XR1015	
	Maxim	MF10	
	MicroLinear	ML2110	
	National	MF10	
	TI	TLC10	
		TLC20	
LTC1062	Exar	XR1015	
	Maxim	LTC1062	
LTC1091	AD	ADC032	
	National	ADC032	
LTC1099	AD	ADC0820	
		AD7820	
	Maxim	AD7820	
		MX7820	
	National	ADC0820	
LTC1150	Maxim	MAX420	
		MAX422	
		MAX430	
		MAX432	
LTC1232	Dallas	DS1232	
	Maxim	MAX1232	
LTC1272	AD	ADS7800	
		AD7572	
	Maxim	MAX162	
		MAX163	
		MX7572	
LTC201	AD	ADG201	
	Harris	DG201	
	Maxim	DG201	
♦ LTC202	AD	ADG202	
	Harris	DG202	
	Maxim	DG202	
♦ LTC221	AD	ADG221	
♦ LTC222	AD	ADG222	
♦ LTC485	Dallas	DS3695	
	National	μA96176	
	TI	SN75176	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ LTC486	National	μA96172	
	TI	SN75172	
♦ LTC487	National	μA96174	
	TI	SN75174	
LTC690	Maxim	MAX690	
LTC691	Maxim	MAX691	
LTC694	Maxim	MAX694	
LTC695	Maxim	MAX695	
LTC7652	Harris	ICL7652	
	Maxim	ICL7652	
	TeledyneC	TSC7652	
		TSC918	
LT0070	GEC Plessey	ZNREF100	
LT0071	GEC Plessey	ZNREF100	
LT1001	AD	ADOP07	
		AD510	
		AD517	
		OP05	
		OP07	
		OP177	
		OP77	
	Burr-Brown	OPA177	
	Harris	HAOP07	
		HA5130	
		HA5135	
		HA5177	
	Maxim	MAX400	
		MAX9686	
	National	μA714	
		LH0044	
		LM607	
	Raytheon	OP05	
		OP07	
		RC714	
	TI	OP07	
LT1002	AD	OP10	
		OP207	
LT1003	Linfinity Micro	SG123	
		SG323	
	Motorola	LM123	
		LM323	
	National	μA78H05	
		LM123	
		LM323	
		LM337	
		SH123	
		SH323	
	SemTech	LAS1905	
LT1004	Astec Semi	AS1004	
	Burr-Brown	REF1004	
	ECI Semi	EC1004	
		1004	
	Harris	ICL8069	
	MicroPwr	MP5010	
	National	LM113	
		LM185	
		LM385	
	TeledyneC	TSC9491	
	TI	LT1004	
LT1004-1.2	Burr-Brown	REF1004-1.2	
	GEC Plessey	REF12	
LT1004-2.5	Burr-Brown	REF1004-2.5	
	GEC Plessey	REF25	
LT1005	National	LM2935	
LT1006	AD	AD821	
		LT1006	
LT1007	AD	OP27	
	Burr-Brown	OPA27	
	Motorola	OP27	
	Raytheon	OP27	
	TI	LT1007	
		OP27	
LT1008	AMD	LM108	
		LM308	
	AD	PM1008	
		PM108	
		PM308	
	Harris	LM108	
	Linfinity Micro	SG108	
	Motorola	LM308	
	National	μA108	
		μA308	
		LM108	
		LM308	
	TI	LT1008	
LT1009	**AD**	**REF03**	**(3536)**
	Cherry Semi	CS1009	
	GEC Plessey	REF25	
		ZNREF025	
	National	LM136	
		LM336	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LT1009			(Cont'd)
	TI	LT1009	
LT1010	Elantec	ELH0002	
		EL2008	
		EL2009	
	National	LH0002	
LT1011	AMD	LM111	
		LM311	
	AD	**CMP01**	**(3539)**
		CMP02	
	Harris	LM111	
	Linfinity Micro	SG111	
		SG311	
	Motorola	LM311	
	National	μA111	
		μA311	
		LM111	
		LM311	
	Philips	LM111	
		LM311	
	Raytheon	LM111	
		LM311	
	TI	LM111	
		LM311	
		LT1011	
LT1012	AD	OP12	
		OP97	
		PM1012	
	National	LM112	
		LM312	
LT1013	AD	AD822	
		OP04	
		OP14	
		OP200	
		OP220	
		OP221	
		PM1558	
	Burr-Brown	**OPA1013**	**(3457)**
	Linfinity Micro	SG1558	
	Motorola	LM158	
		MC1558	
	National	μA1558	
		LM158	
		LM358	
	Philips	LM158	
		MC1558	
	Raytheon	RM1558	
	TI	LM158	
		LT1013	
		MC1558	
LT1014	AMD	LM148	
	AD	AD824	
		OP11	
		OP400	
		OP421	
	Burr-Brown	OPA1014	
	Harris	HA5134	
		HA5234	
		LM124	
	Linfinity Micro	SG124	
	Motorola	LM124	
		LM148	
	National	μA124	
		μA148	
		LM124	
		LM148	
		LM324	
		LM348	
	Philips	LM124	
	Raytheon	LM124	
	TI	LM124	
		LM148	
LT1016	AMD	AM686	
	AD	AD790	
		AD9686	
	Maxim	MAX9686	
	TI	LT1016	
LT1017	TI	TLC352	
		TLC3702	
		TLC392	
LT1018	TI	TLC352	
		TLC3702	
		TLC392	
LT1019	**AD**	**REF01**	**(3536)**
		REF02	
		REF03	**(3536)**
		REF43	**(3536)**
	GEC Plessey	REF25	
	Maxim	MAX675	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Ma
LT1019			(Con
	Motorola	LM168	
		MC1400	
	National	LM368	
	TeledyneC	TSC9495	
LT1019-10	GEC Plessey	ZNREF100	
LT1019-5	GEC Plessey	REF50	
		ZNREF050	
LT1019-6	GEC Plessey	ZNREF062	
LT1019M-2.5	GEC Plessey	ZNREF025	
LT1020	National	LP2951	
LT1021	**AD**	**REF01**	**(35**
		REF02	
	Burr-Brown	**REF102**	**(34**
	National	LM169	
		LM369	
	TeledyneC	TSC9495	
		TSC9496	
LT1021-10	GEC Plessey	ZNREF100	
LT1021-5	GEC Plessey	REF50	
		ZNREF050	
LT1022	AD	AD381	
		OP16	
	Burr-Brown	OPA606	
	Harris	HA5160	
	Motorola	LF357	
		LT1022	
	National	LF356	
		LF357	
LT1023	AD	OP01	
		OP42	
	National	SH123	
LT1024	**AD**	**OP297**	**(35**
LT1026	Maxim	MAX680	
LT1027	**AD**	**AD586**	**(35**
LT1028	AD	OP61	
	GEC Plessey	ZN534	
	Maxim	LT1028	
	TI	LT1028	
LT1029	National	LM136	
		LM336	
LT1029-5	GEC Plessey	REF50	
		ZNREF050	
LT1031	AD	AD581	
	GEC Plessey	ZNREF100	
	National	LH0070	
LT1033	Linfinity Micro	SG137	
		SG337	
	Motorola	LM137	
		LM337	
	National	LM133	
		LM137	
		LM333	
		LM337	
	Unitrode	UC137	
		UC337	
LT1034	AD	AD589	
	GEC Plessey	ZN423	
	National	LM185	
		LM385	
LT1036	TI	LT1036	
LT1037	AD	OP37	
	Burr-Brown	OPA37	
	Harris	HA5137	
	Motorola	OP37	
	Philips	NE1037	
		NE5534	
		SE5534	
	Raytheon	OP37	
	TI	LT1037	
		OP37	
LT1038	National	LM196	
		LM396	
LT1039	Motorola	MC14506	
LT1054	Maxim	MAX660	
	Unitrode	LT1054	
		UC1054	
LT1055	AMD	LF155	
		LF355	
	AD	OP15	
		PM155	
		PM355	
	Burr-Brown	OPA606	
	Motorola	LF155	
	National	LF155	
		LF355	
LT1056	AMD	LF156	
		LF356	
	AD	AD711	
		OP16	
		PM156	
		PM356	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
T1056			(Cont'd)
	Burr-Brown	OPA606	
	Motorola	LF156	
	National	LF156	
		LF356	
T1057	AD	AD642	
		AD647	
		AD712	
		OP215	
T1058	**AD**	**AD713**	**(3526, 3512)**
T1060AC	MicroLinear	ML2110BC	
		ML2110BI	
T1060AM	MicroLinear	ML2110BM	
T1060C	MicroLinear	ML2110CC	
		ML2110CI	
T1060M	MicroLinear	ML2110CM	
T1070	Cherry Semi	CS1070	
	TI	LT1070	
T1071	National	LM2577	
T1073	Maxim	MAX654	
		MAX656	
		MAX657	
T1074	Motorola	MC34166	
T1076	National	LM2575	
T1077	Maxim	MAX480	
T1078	AD	OP220	
		OP290	
	TeledyneC	TSC913	
T1079	AD	OP420	
		OP490	
	TeledyneC	TSC914	
T1080	TeledyneC	TSC232	
T1081	**AD**	**AD232**	**(3514)**
	Harris	ICL232	
	Maxim	MAX232	
	TeledyneC	TC232	
		TSC232	
T1086	ECI Semi	EC1086	
	National	LM2940	
T1088	AD	AD536	
		AD636	
		AD637	
		AD736	**(3531)**
		AD737	
T1097	AD	AD705	
		AD707	**(3526)**
		OP177	
		OP97	
T1101	AD	AD524	
T111	AMD	LM111	
	Harris	LM111	
	Linfinity Micro	SG111	
	Motorola	LM111	
	National	µA111	
		LM111	
	Philips	LT111	
	Raytheon	LM111	
	TI	LM111	
LT1117	Burr-Brown	REG1117	
	National	LP2950	
LT1120	National	LP2951	
LT1122	**AD**	**AD744**	**(3512, 3528)**
		AD845	**(3512, 3530)**
		OP42	
	National	LF400	
LT1124	AD	OP270	
LT1125	AD	OP470	
LT1126	Harris	HA5222	
LT1130	**AD**	**AD235**	**(3514)**
	Maxim	MAX235	
LT1132	Maxim	MAX237	
LT1133	Maxim	MAX239	
LT1134	Maxim	MAX238	
	TI	SN75186	
LT1136	**AD**	**AD241**	**(3514)**
	Maxim	MAX241	
LT1137	**AD**	**AD239**	**(3514)**
LT1138	**AD**	**AD237**	**(3514)**
LT1139	**AD**	**AD238**	**(3514)**
LT117	Motorola	LM117	
	National	µA117	
		LM117	
	Unitrode	UC117	
LT1173	Maxim	MAX630	
		MAX631	
		MAX632	
LT1173	Maxim		(Cont'd)
		MAX633	
		MAX634	
		MAX635	
		MAX636	
		MAX637	
		MAX638	
		MAX641	
		MAX642	
		MAX643	
		MAX655	
		MAX658	
		MAX659	
LT1178	AD	OP290	
LT1179	AD	OP490	
LT118	AD	AD518	
	Elantec	EHA2510	
	Harris	HA2510	
		HA2512	
	National	LM118	
LT119	AMD	LM119	
	National	LM119	
	Philips	LM119	
LT1190	**AD**	**AD847**	**(3530)**
	Maxim	MAX408	
		MAX452	
LT1191	**AD**	**AD847**	**(3530)**
		AD848	**(3529)**
	Maxim	MAX408	
		MAX452	
LT1192	**AD**	**AD848**	**(3529)**
		AD849	**(3529)**
	Maxim	MAX408	
		MAX452	
LT1220	**AD**	**AD841**	**(3530)**
	Elantec	EL2028	
		EL2041	
	Harris	HA2500	
		HA2502	
		HA2505	
		HA2520	
		HA2525	
		HA2541	
		HA2841	**(3637)**
LT1221	**AD**	**AD842**	**(3512, 3530)**
	Elantec	EL2029	
	Harris	**HA2841**	**(3637)**
LT1222	**AD**	**AD840**	**(3512, 3529)**
	Elantec	EL2038	
		EL2039	
		EL2040	
	Harris	HA2840	
LT1223	**AD**	**AD844**	**(3526, 3512, 3529)**
		AD846	**(3526, 3512, 3529)**
		AD9617	
		AD9618	
	Elantec	EL2020	
		EL2030	
		EL2130	
	Harris	HA5004	
		HA5020	
LT1224	**AD**	**AD847**	**(3530)**
	Harris	**HA2544**	**(3637)**
		HA2841	**(3637)**
LT1225	**AD**	**AD848**	**(3529)**
	Harris	**HA2841**	**(3637)**
		HA2842	**(3637)**
LT1226	**AD**	**AD849**	**(3529)**
	Harris	HA2840	
LT1227	Harris	HA5020	
♦ LT1227	Elantec	EL2020	
		EL2030	
		EL2120	
		EL2130	
LT1229	Elantec	EL2244	
	Harris	HA5023	
		HFA1205	
LT123	Linfinity Micro	SG123	
	Motorola	LM123	
	National	LM123	
		SH123	
LT123A	National	LM123A	
LT1230	Elantec	EL2430	
	Harris	**HA5025**	**(3637)**
		HFA1405	
LT1242	Astec Semi	UC3842	
		UC3842A	
♦ LT1242	Unitrode	UC3842	
LT1243	Astec Semi	UC3843	
		UC3843A	
♦ LT1243	Unitrode	UC3843	
LT1244	Astec Semi	UC3844	
		UC3844A	
♦ LT1244	Unitrode	UC3844	
LT1245	Astec Semi	UC3845	
		UC3845A	
♦ LT1245	Unitrode	UC3845	
LT137	Linfinity Micro	SG137	
	Motorola	LM137	
	National	LM137	
	Unitrode	UC137	
LT138	Linfinity Micro	SG138	
	National	LM138	
LT1431	Astec Semi	AS1431	
	Motorola	TL431	
	TI	TL431	
LT150	Linfinity Micro	SG150	
	Motorola	LM150	
	National	LM150	
	Unitrode	UC150	
LT1524	Harris	CA1524	
	Linfinity Micro	SG1524	
	Motorola	SG1524	
	National	LM1524	
	TI	SG1524	
	Unitrode	UC1524	
LT1525	Linfinity Micro	SG1525	
	Motorola	SG1525	
	Unitrode	UC1525	
LT1526	Linfinity Micro	SG1526	
	Unitrode	UC1526	
LT1527	Linfinity Micro	SG1527	
	Motorola	SG1527	
	Unitrode	UC1527	
LT1842	Linfinity Micro	SG1842	
	Unitrode	UC1842	
LT1843	Linfinity Micro	SG1843	
	Unitrode	UC1843	
LT1846	Unitrode	UC1846	
LT1847	Unitrode	UC1847	
LT2524	Linfinity Micro	SG2524	
	Unitrode	UC2524	
LT2525	Unitrode	UC2525	
LT2526	Linfinity Micro	SG2526	
	Unitrode	UC2526	
LT2527	Unitrode	UC2527	
LT311	AMD	LM311	
	Linfinity Micro	SG311	
	Motorola	LM311	
	National	µA311	
		LM311	
	Philips	LM311	
	Raytheon	LM311	
	TI	LM311	
LT317	Linfinity Micro	SG317	
	Motorola	LM317	
	National	µA317	
		LM317	
	Unitrode	LT317	
LT318	AMD	LM318	
	Elantec	EHA2515	
	Harris	HA2515	
	National	µA318	
		LM318	
	TI	LM318	
LT319	AMD	LM319	
	National	LM319	
LT323	Linfinity Micro	SG323	
	Motorola	LM323	
		MC78705	
	National	LM323	
		SH323	
	TI	LM323	
LT337	Linfinity Micro	SG337	
	Motorola	LM337	
	National	LM337	
	Unitrode	UC337	
LT338	Linfinity Micro	SG338	
	National	LM338	
LT338A	National	LM338A	
LT350	Linfinity Micro	SG350	
	Motorola	LM350	
	National	LM350	
	TI	LM350	
	Unitrode	UC350	
LT350A	National	LM350A	
LT3524	Harris	CA3524	
	Linfinity Micro	SG3524	
	Motorola	SG3524	
	National	LM3524	
	Philips	SG3524	
	TI	SG3524	
	Unitrode	UC3524	
LT3525	Linfinity Micro	SG3525	
	Motorola	SG3525	
	TI	SG3525	
	Unitrode	UC2525	
		UC3525	
LT3526	Linfinity Micro	SG3526	
♦ LT3526	Linfinity Micro	SG3526	
LT3527	Linfinity Micro	SG3527	
	Motorola	LT3527	
	Unitrode	UC3527	
LT3846	TeledyneC	TSC170	
	Unitrode	UC3846	
LT3847	TeledyneC	TSC171	
	Unitrode	UC3847	
LT580	AD	AD580	
LT581	AD	AD581	
LT685	AMD	AM685	
L295	SGS-Thomson	L295	
OP05	AD	OP05	
	Raytheon	OP05	
OP07	AD	ADOP07	
		AD510	
		AD517	
		OP07	
	Harris	HAOP07	
		HA5130	
		HA5135	
	Maxim	OP07	
	National	µA714	
	Raytheon	OP07	
		RC714	
	TI	OP07	
OP15	AD	OP15	
	Burr-Brown	OPA606	
	Harris	CA3140	
OP16	AD	OP16	
	Burr-Brown	OPA606	
OP215	AD	OP215	
	Harris	CA3240	
OP227	AD	OP227	
OP237	AD	OP271	
OP27	AD	ADOP27	
		OP27	
	Burr-Brown	OPA27	
	Harris	HA5127	
	Maxim	OP27	
	Motorola	OP27	
	TI	OP27	
OP270	AD	OP270	
OP37	AD	OP37	
	Burr-Brown	OPA37	
	Motorola	OP37	
	Philips	NE5534	
		SE5534	
	Raytheon	OP37	
	TI	OP37	
OP470	AD	OP470	
	Harris	HA5104	
OP7	Burr-Brown	OPA177	
REF01	**AD**	**REF01**	**(3536)**
	Burr-Brown	REF01	
	GEC Plessey	REF100	
		ZNREF100	
	Motorola	MC1404	
	National	LM368	
	TeledyneC	TSC9496	
REF02	AD	REF02	
	Burr-Brown	REF02	
	GEC Plessey	ZNREF050	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Linear Technology Corp. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
REF02			(Cont'd)
	Motorola	MC1404	
	TeledyneC	TSC9495	
SG1524	Harris	CA1524	
	Linfinity Micro	SG1524	
	Motorola	SG1524	
	National	LM1524	
	TI	SG1524	
	Unitrode	UC1524	
SG1525	Linfinity Micro	SG1525	
	Motorola	SG1525	
	Unitrode	UC1525	
SG1527	Linfinity Micro	SG1527	
	Motorola	SG1527	
	Unitrode	UC1527	
SG2524	Linfinity Micro	SG2524	
	Unitrode	UC2524	
SG3524	Harris	CA3524	
	Linfinity Micro	SG3524	
	Motorola	SG3524	
	National	LM3524	
	Philips	SG3524	
	TI	SG3524	
	Unitrode	UC3524	
SG3525	Linfinity Micro	SG3525	
	Motorola	SG3525	
	TI	SG3525	
	Unitrode	UC2525	
		UC3525	
SG3527	Linfinity Micro	SG3527	
	Motorola	SG3527	
	National	LM3527	
	TI	UC3527	
	Unitrode	UC3527	
UC1846	Linfinity Micro	SG1846	
	Unitrode	UC1846	
UC1847	Linfinity Micro	SG1847	
	Unitrode	UC1847	
UC3846	Linfinity Micro	SG3846	
	TI	UC3846	
	Unitrode	UC3846	
UC3847	Linfinity Micro	SG3847	
	TI	UC3847	
	Unitrode	UC3847	

Linfinity Microelectronics

Manufacturer Device	Replacement Source	Device	IC Master Page
CA0723	Linfinity Micro	SG723	
CA3524	Harris	CA3524	
LM317	National	LM317	
MC78M18	Motorola	MC78M18	
MC7815	Motorola	MC7815	
SG040	TI	TL040	
SG100	Motorola	MC1723	
SG101	LinearTech	LM101	
	Motorola	LM101	
	National	µA101	
		LM101	
	SGS-Thomson	LS101	
	TI	LM101	
SG103	National	LM103	
	Raytheon	TL103	
SG104	National	LM104	
SG105	National	LM105	
SG107	LinearTech	LM107	
	Motorola	MC1741	
	National	LM107	
	TI	LM107	
SG108	LinearTech	LM108	
		LT1008	
SG109	Motorola	LM109	
	National	µA109	
		LM109	
SG111	LinearTech	LM111	
		LT1011	
		LT111	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SG111			(Cont'd)
	Motorola	LM111	
	National	µA111	
	TI	LM111	
		TL111	
SG117	LinearTech	LM117	
	Motorola	LM117	
	National	µA117	
		LM117	
	TI	TL117	
	Unitrode	UC117	
SG117K	SemTech	LLM117	
SG1173	National	LM675	
SG118	Motorola	MC1741	
SG120	National	LM120	
	Unitrode	UC120	
SG120-05/883B	TI	UA79M12MFKB	
SG120-05L/883B	TI	UA79M05MFKB	
SG123	LinearTech	LM123	
		LT1003	
		LT123	
	Motorola	LM123	
	National	LM123	
	SGS-Thomson	LM123	
SG124	LinearTech	LT1014	
	Motorola	LM124	
	National	µA124	
		LM124	
SG124F/883B	TI	LM124WB	
SG124J	TI	LM124J	
SG124J/883B	TI	LM124JB	
SG124L/883B	TI	LM124FKB	
SG1250	Motorola	MC1776	
SG137	LinearTech	LM137	
		LT1033	
		LT137	
	Motorola	LM137	
	National	LM137	
	TI	LM137	
	Unitrode	UC137	
SG138	LinearTech	LM138	
		LT138	
	National	LM138	
SG138K	SemTech	LLM138	
SG140	Motorola	LM140	
	National	LM140	
	Unitrode	UC140	
SG140-05L/883B	TI	UA78M05MFKB	
SG140-12L/883B	TI	UA78M12MFKB	
SG1402	Motorola	MC1594	
SG143	National	LM143	
SG1436	Motorola	MC1436	
	National	LM343	
SG1456	Motorola	MC1456	
SG1458	Motorola	MC1458	
SG1468	Motorola	MC1468	
	National	µA1489	
	TI	SN55189	
		SN75189	
SG1488	TI	SNJ55188	
SG1489	Motorola	MC1489	
	TI	SNJ55189	
SG1495	Motorola	MC1495	
SG1496	Motorola	MC1496	
	Philips	MC1496	
SG150	LinearTech	LM150	
		LT150	
	Motorola	LM150	
	National	LM150	
	Unitrode	UC150	
SG150K	SemTech	LLM150	
SG1501	Motorola	MC1558	
		MC1568	
SG1502	Motorola	MC1568	
SG1503	Motorola	MC1503	
SG1524	Allegro Micro	ULS8124	
	Cherry Semi	CS1524	
	Exar	XR1524	
	Harris	CA1524	
	LinearTech	LT1524	
		SG1524	
	Motorola	TL494	
	National	µA1524	
		LM1524	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SG1524			(Cont'd)
	SGS-Thomson	SG1524	
	TI	SG1524	
	Unitrode	UC1524	
SG1525	Allegro Micro	ULS8125	
	Cherry Semi	CS1525	
	LinearTech	LT1525	
		SG1525	
	Motorola	SG1525	
	SGS-Thomson	SG1525	
	TI	TL1525	
	Unitrode	UC1525	
SG1526	Allegro Micro	ULS8126	
	Cherry Semi	CH1526	
	LinearTech	LT1526	
	Motorola	SG1526	
	Unitrode	UC1526	
SG1527	Allegro Micro	ULS8127	
	Cherry Semi	CS1527	
	LinearTech	LT1527	
		SG1527	
	Motorola	SG1527	
	SGS-Thomson	SG1527	
	TI	TL1527	
	Unitrode	UC1527	
SG1536	Harris	HA2640	
	Motorola	MC1536	
	National	LM143	
SG1543	Unitrode	UC1543	
SG1544	Unitrode	UC1544	
SG1558	LinearTech	LT1013	
	Motorola	MC1558	
SG1568	Motorola	MC1568	
SG1595	Motorola	MC1595	
SG1596	Motorola	MC1596	
	National	µA796	
SG1626	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
SG1644	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
SG1660	Motorola	LM301	
SG1825	Unitrode	UC1825	
SG1840	Unitrode	UC1840	
		UC1841	
SG1842	Cherry Semi	CS1842	
	LinearTech	LT1842	
	Unitrode	UC1842	
SG1843	Cherry Semi	CS1843	
	LinearTech	LT1843	
	Unitrode	UC1843	
SG1844	Unitrode	UC1844	
SG1845	Unitrode	UC1845	
SG1846	LinearTech	UC1846	
	Unitrode	UC1846	
SG1847	LinearTech	UC1847	
	Unitrode	UC1847	
SG2-24	Allegro Micro	ULN2024	
		ULS2024	
SG200	Motorola	MC1723	
SG2001	Allegro Micro	ULN2001	
		ULS2001	
	Motorola	MC1411	
	National	µA9665	
	SGS-Thomson	ULN2001	
		ULQ2001	
SG2002	Allegro Micro	ULN2002	
		ULS2002	
	Motorola	MC1412	
	National	µA9666	
	SGS-Thomson	ULN2002	
		ULQ2002	
SG2003	Allegro Micro	ULN2003	
	Motorola	MC1413	
		ULN2003	
	National	µA9667	
	SGS-Thomson	ULN2003	
		ULQ2003	
SG2004	Allegro Micro	ULN2004	
	Motorola	MC1416	
		ULN2004	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Mas P
SG2004			(Cont'
	SGS-Thomson	ULN2004	
		ULQ2004	
SG201	Motorola	LM201	
		MC1748	
	National	µA201	
		LM201	
	TI	LM748	
SG2011	Allegro Micro	ULN2011	
		ULS2011	
SG2012	Allegro Micro	ULN2012	
		ULS2012	
SG2013	Allegro Micro	ULN2013	
		ULS2013	
SG2014	Allegro Micro	ULN2014	
		ULS2014	
SG2021	Allegro Micro	ULN2021	
		ULS2021	
	SGS-Thomson	L201	
SG2022	Allegro Micro	ULN2022	
		ULS2022	
	SGS-Thomson	L202	
SG2023	Allegro Micro	ULN2023	
		ULS2023	
	SGS-Thomson	L203	
SG2024	SGS-Thomson	L272	
SG204	Motorola	LM204	
	National	LM204	
	SGS-Thomson	LS204	
SG205	Motorola	LM205	
	National	LM205	
SG2064	Allegro Micro	ULN2064	
	Motorola	ULN2064	
	SGS-Thomson	ULN2064	
	TI	SN75064	
SG2065	Allegro Micro	ULN2065	
	Motorola	ULN2065	
	SGS-Thomson	ULN2065	
	TI	SN75065	
SG2066	Motorola	ULN2066	
	SGS-Thomson	ULN2066	
	TI	SN75066	
SG2067	Motorola	ULN2067	
	SGS-Thomson	ULN2067	
	TI	SN75067	
SG2068	Allegro Micro	ULN2068	
	Motorola	ULN2068	
	SGS-Thomson	ULN2068	
	TI	SN75068	
SG2069	Allegro Micro	ULN2069	
	Motorola	ULN2069	
	SGS-Thomson	ULN2069	
	TI	SN75069	
SG207	Motorola	MC1741	
	National	LM207	
	TI	LM207	
SG2070	SGS-Thomson	ULN2070	
SG2071	SGS-Thomson	ULN2071	
SG2074	Motorola	ULN2074	
	TI	SN75074	
SG2075	SGS-Thomson	ULN2075	
	TI	SN75075	
SG2076	SGS-Thomson	ULN2076	
SG2077	SGS-Thomson	ULN2077	
SG209	Motorola	LM209	
	National	µA209	
		LM209	

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

infinity Microelectronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SG211	Motorola	LM211	
	Philips	LM211	
	TI	LM211	
SG217	Motorola	LM217	
		MC1741	
	National	LM217	
	SGS-Thomson	LM217	
	TI	LM217	
	Unitrode	UC217	
SG218	Motorola	MC1741	
SG220	National	LM220	
SG223	Motorola	LM223	
	SGS-Thomson	LM223	
SG224	Motorola	LM224	
	National	µA224	
		LM224	
	TI	LM224	
SG2250	Motorola	MC1776	
SG237	Motorola	LM237	
	National	LM237	
	TI	LM237	
	Unitrode	UC237	
SG238	National	µA238	
		LM238	
SG240	National	LM240	
SG2402	Motorola	MC1494	
SG250	Motorola	LM250	
	National	LM250	
	Unitrode	UC250	
SG2501	Motorola	MC1468	
SG2502	Motorola	MC1468	
SG2503	Motorola	MC1403	
		TL494	
SG2524	Allegro Micro	ULQ8124	
	Cherry Semi	CS2524	
	Harris	CA2524	
	LinearTech	LT2524	
		SG2524	
	National	µA2524	
		LM2524	
	SGS-Thomson	SG2524	
	TI	SG2524	
	Unitrode	UC2524	
SG2525	Allegro Micro	ULQ8125	
	Cherry Semi	CS2525	
	Motorola	SG2525	
	SGS-Thomson	SG2525	
	TI	TL2525	
	Unitrode	UC2525	
SG2526	Cherry Semi	CS2526	
	LinearTech	LT2526	
	Motorola	SG2526	
	Unitrode	UC2526	
SG2527	Allegro Micro	ULQ8127	
	Cherry Semi	CS2527	
	Motorola	SG2527	
	SGS-Thomson	SG2527	
	TI	TL2527	
	Unitrode	UC2527	
SG2532	SemTech	LAS1100	
SG2540	Unitrode	UC2540	
SG2543	Unitrode	UC2543	
SG2544	Unitrode	UC2544	
SG2548	Unitrode	UC2548	
SG25768	National	FSA2565	
SG25770	National	FSA2566	
SG2626	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
SG2644	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
SG2801	Allegro Micro	ULS2801	
	SGS-Thomson	ULN2801	
SG2802	Allegro Micro	ULS2802	
	SGS-Thomson	ULN2802	
SG2803	Allegro Micro	ULS2803	
	SGS-Thomson	ULN2803	
SG2804	Allegro Micro	ULS2804	
	SGS-Thomson	ULN2804	
SG2811	Allegro Micro	ULS2811	
SG2812	Allegro Micro	ULS2812	
SG2813	Allegro Micro	ULS2803	
SG2814	Allegro Micro	ULS2814	
SG2821	Allegro Micro	ULS2821	
SG2822	Allegro Micro	ULS2822	
	SGS-Thomson	L602	
SG2823	Allegro Micro	ULS2823	
	SGS-Thomson	L603	
SG2824	Allegro Micro	ULS2824	
	SGS-Thomson	L604	
SG2825	Unitrode	UC2825	
SG2840	Unitrode	UC2840	
SG2842	Unitrode	UC2842	
SG2843	Unitrode	UC2843	
SG2843NN16	Cherry Semi	CS2843	
SG2844	Cherry Semi	CS2844	
	Unitrode	UC2844	
SG2845	Cherry Semi	CS2845	
SG2846	Unitrode	SG2846	
		UC2846	
SG2847	Unitrode	UC2847	
SG29055	National	LM2935	
SG29085	National	LM2985	
SG29125	Cherry Semi	CS955	
SG298	Allegro Micro	UDN2998	
SG29805	Cherry Semi	CS965	
SG300	Motorola	MC1723	
SG301	LinearTech	LM301	
	Motorola	LM301	
	National	µA301	
		LM301	
SG304	National	LM304	
SG3045	GEC Plessey	SL3046	
	Harris	CA3045	
SG3046	GEC Plessey	SL3046	
SG3049	**Harris**	**CA3049**	**(3637)**
SG305	Motorola	LM305	
	National	µA305	
		LM305	
SG307	LinearTech	LM307	
	Motorola	LM307	
	National	LM307	
SG3083	Harris	CA3083	
SG309	Motorola	LM309	
	National	µA309	
		LM309	
	SemTech	LAS1505	
SG311	LinearTech	LM311	
		LT1011	
		LT311	
	Motorola	LM311	
	National	µA311	
SG317	LinearTech	LM317	
		LT317	
	Motorola	LM317	
	National	µA317	
		LM317	
	SemTech	LLM317	
	SGS-Thomson	LM317	
	Unitrode	UC317	
SG3172	Cherry Semi	CS365	
SG3173	Allegro Micro	ULN3751	
	National	LM675	
	SGS-Thomson	L165	
SG318	Motorola	MC1741	
SG3183	Harris	CA3183	
SG320	National	LM320	
	SemTech	LAS1805	
		LAS1808	
		LAS1812	
		LAS1815	
	Unitrode	UC320	
SG323	LinearTech	LM323	
		LT1003	
		LT323	
	Motorola	LM323	
	National	LM323	
	SemTech	LAS1405	
		LLM323	
	SGS-Thomson	LM323	
SG323K	SemTech	LLM323K	
SG324	Motorola	LM324	
	National	LM324	
	SGS-Thomson	LM324	
SG3250	Motorola	MC1776	
SG3272	SGS-Thomson	L2722	
		L2726	
SG337	LinearTech	LM337	
		LT1033	
		LT337	
	Motorola	LM337	
	National	LM337	
	Unitrode	UC337	
SG338	LinearTech	LM338	
		LT338	
	National	µA338	
		LM338	
SG340	Motorola	LM340	
		LM350	
	National	LM340	
	SemTech	LAS1505	
		LAS1506	
		LAS1508	
		LAS1512	
		LAS1515	
		LAS1518	
		LAS1524	
	Unitrode	UC340	
		UC7812	
SG3402	Motorola	MC1494	
SG3423	Motorola	MC3423	
SG343	National	LM343	
SG350	LinearTech	LM350	
		LT350	
	Motorola	LM350	
	National	µA350	
		LM350	
	Unitrode	UC350	
SG350K	SemTech	LLM350K	
SG3501	Motorola	MC1468	
SG3502	Motorola	MC1468	
SG3503	Motorola	MC1403	
SG3523	Motorola	MC3523	
SG3524	Allegro Micro	ULN8124	
	Exar	XR3524	
	Harris	CA3524	
	LinearTech	LT3524	
		SG3524	
	Motorola	TL494	
	National	µA3524	
		LM3524	
	Philips	SG3524	
	SGS-Thomson	SG3524	
	TI	SG3524	
	Unitrode	UC3524	
SG3524BN	Cherry Semi	CS3524	
SG3525	Allegro Micro	ULN8125	
	LinearTech	LT3525	
		SG3525	
	Motorola	SG3525	
	Unitrode	UC3525	
SG3526	Allegro Micro	ULN8126	
	Motorola	SG3526	
		SG3626	
	Unitrode	UC1526	
		UC3526	
SG3527	Allegro Micro	ULN8127	
	LinearTech	LT3527	
		SG3527	
	Motorola	SG3527	
	National	LM3527	
	Unitrode	UC3527	
SG3532	SemTech	LAS1000	
SG3543	Unitrode	UC3543	
SG3544	Unitrode	UC3544	
SG3548	Allegro Micro	ULN8130	
SG3626	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
SG3643	Allegro Micro	UDN2962	
SG3644	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
SG3718	Cherry Semi	CS3717A	
	Unitrode	UC3717	
SG3727	SGS-Thomson	SG3527	
SG3821	Allegro Micro	ULN2045	
	GEC Plessey	SL3046	
		SL3145	
	National	µA3086	
SG3825	Unitrode	UC3825	
SG3840	Unitrode	UC3840	
SG3842	**Micrel**	**MIC38C42**	**(3685)**
		MIC38HC42	
	TI	UC3842	
	Unitrode	UC3842	
SG3843	**Micrel**	**MIC38C43**	**(3685)**
		MIC38HC43	
	TI	UC3843	
	Unitrode	UC3843	
SG3844	Cherry Semi	CS3844	
	Micrel	**MIC38C44**	**(3685)**
		MIC38HC44	
	TI	UC3844	
	Unitrode	UC3844	
SG3845	Cherry Semi	CS3845	
	Micrel	**MIC38C45**	**(3685)**
		MIC38HC45	
	TI	UC3845	
	Unitrode	UC2845	
		UC3845	
SG3846	LinearTech	UC3846	
	Unitrode	UC3846	
SG3847	LinearTech	UC3847	
	Unitrode	UC3847	
SG3851	Linfinity Micro	ULS2011	
SG3853	Allegro Micro	ULN2013	
SG4194	Motorola	MC1468	
		MC1568	
SG4250	Motorola	MC1776	
SG4501	Motorola	MC1468	
SG501	Motorola	MC1468	
SG55234	TI	SNJ55234	
SG55235	TI	SNJ55236	
SG55236	TI	SNJ55236	
SG5524	TI	SNJ5524	
SG55325	National	DS55325	
	TI	SNJ55325	
SG55326	TI	SNJ55326	
SG55450	National	µA55450	
	TI	SNJ55450	
SG55451	National	DS55451	
	TI	SNJ55451	
SG55452	National	µA55452	
		DS55452	
	TI	SNJ55452	
SG55453	National	DS55453	
	TI	SNJ55453	
SG55454	National	DS55454	
	TI	SNJ55454	
SG55460	TI	SNJ55460	
SG55461	National	DS55461	
	TI	SNJ55461	
SG55462	National	µA55462	
		DS55462	
	TI	SNJ55462	
SG55463	National	DS55463	
	TI	SNJ55463	
SG55464	National	DS55464	
	TI	SNJ55464	
SG55470	National	DS55470	
	TI	SNJ55470	
SG55471	National	DS55471	
	TI	SNJ55471	
SG55472	TI	SNJ55472	
SG55473	TI	SNJ55473	
SG55474	TI	SNJ55474	
SG555	Motorola	MC1455	
SG556	Motorola	MC3456	
SG5768	National	FSA1411	
		FSA2002	
		FSA2563	
		MAD1105	
SG5770	National	FSA141	
		FSA2003	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SG5770	National		(Cont'd)
		FSA2564	
		MAD1106	
SG5772	Motorola	MAD1103	
	National	FSA2500	
		FSA2501	
		FSA2510	
SG5774	Motorola	MAD1104	
	National	FSA2503	
		FSA2504	
		FSA2509	
		MAD1107	
SG6100	National	FSA2620	
		FSA2621	
		FSA2720	
		FSA2721	
		MAD1109	
SG6101	Motorola	MAD1108	
	National	FSA2619	
		FSA2719	
SG6118	Allegro Micro	UDN6118	
SG708	Motorola	MC78M08	
SG723	Fujitsu	MB3752	
	Harris	CA0723	
	Linfinity Micro	CA0723	
	Motorola	MC1723	
	National	LM723	
	SGS-Thomson	LM723	
SG723F/883B	TI	UA723MUB	
SG723J	TI	UA723MJ	
SG723J/883B	TI	UA723MJB	
SG723L/883B	TI	UA723MFKB	
SG741	Motorola	MC1741	
	National	LM741	
	SGS-Thomson	LM741	
SG741L/883B	TI	UA741MFKB	
SG741T/883B	TI	UA741MLB	
SG741Y	TI	UA741MJB	
		UA741MJG	
SG741Y/883B	TI	UA741MJGB	
SG747	Motorola	MC1747	
SG748	Motorola	MC1748	
SG75188	TI	SN75188	
SG75189	TI	SN75189	
SG75234	TI	SN75234	
SG7524	TI	SN7524	
SG75325	TI	SN75325	
SG75326	TI	SN75326	
SG75327	TI	SN75327	
SG75430	TI	SN75430	
SG75431	TI	SN75431	
SG75432	TI	SN75432	
SG75433	TI	SN75433	
SG75434	TI	SN75434	
SG75450	National	μA75450	
	TI	SN75450	
SG75451	National	μA75451	
	TI	SN75451	
SG75452	National	μA75452	
	TI	SN75452	
SG75453	National	μA75453	
	TI	SN75453	
SG75454	TI	SN75454	
SG75460	TI	SN75460	
SG75461	National	μA75461	
	TI	SN75461	
SG75462	National	μA75462	
	TI	SN75462	
SG75463	TI	SN75463	
SG75464	TI	SN75464	
SG75470	TI	SN75470	
SG75471	TI	SN75471	
SG75472	TI	SN75472	
SG75473	TI	SN75473	
SG75474	TI	SN75474	
SG7805	Motorola	MC7805	
	National	μA7805	
	SemTech	LAS1505	
	SGS-Thomson	L7805	
SG7805			(Cont'd)
	TI	μA7805	
	Unitrode	UC7805	
SG7806	Motorola	MC7806	
	National	μA7806	
	SemTech	LAS1506	
	SGS-Thomson	L7806	
	TI	μA7806	
SG7808	Motorola	MC08	
		MC7808	
	National	μA7808	
	SemTech	LAS1508	
	SGS-Thomson	L7808	
	TI	μA7808	
SG7812	Motorola	MC78M12	
		MC7812	
	National	μA7812	
	SemTech	LAS1512	
	SGS-Thomson	L7812	
	TI	μA7812	
	Unitrode	UC7812	
SG7815	National	μA7815	
	SemTech	LAS1515	
	SGS-Thomson	L7815	
	TI	μA7815	
	Unitrode	UC7815	
SG7818	Motorola	MC78M18	
		MC7818	
	SemTech	LAS1518	
	TI	μA7818	
SG7820	Motorola	MC7820	
	National	μA7820	
	SGS-Thomson	L7820	
SG7824	Motorola	MC7824	
	National	μA7824	
	SemTech	LAS1524	
	SGS-Thomson	L7824	
	TI	μA7824	
SG7905	Motorola	MC7905	
	National	μA7905	
	SemTech	LAS1805	
	SGS-Thomson	L7905	
	TI	μA7905	
	Unitrode	UC7905	
SG7908	Motorola	MC7908	
	National	μA7808	
	SemTech	LAS1808	
	SGS-Thomson	L7908	
	TI	μA7908	
SG7912	Motorola	MC7912	
	National	μA7912	
	SemTech	LAS1812	
	SGS-Thomson	L7912	
	TI	μA7912	
	Unitrode	UC7912	
SG7915	Motorola	MC7915	
	National	μA7915	
	SemTech	LAS1815	
	SGS-Thomson	L7915	
	TI	μA7915	
	Unitrode	UC7915	
SG7918	Motorola	MC7918	
	SGS-Thomson	L7918	
	TI	μA7918	
SG7920	Motorola	MC7920	
	SGS-Thomson	L7920	
SHC85	Harris	HA2420	
SM600	Unitrode	PIC600	
		PIC7501	
		PIC7519	
SM601	Unitrode	PIC601	
		PIC7502	
		PIC7520	
SM602	Unitrode	PIC602	
		PIC7503	
		PIC7521	
SM610	Unitrode	PIC610	
		PIC7504	
		PIC7522	
SM611	Unitrode	PIC611	
		PIC7505	
		PIC7523	
SM612	Unitrode	PIC612	
		PIC7506	
		PIC7524	
SM625	Unitrode	PIC625	
		PIC7507	
		PIC7525	
SM626	Unitrode	PIC626	
		PIC7508	
		PIC7526	
SM627	Unitrode	PIC627	
		PIC7509	
		PIC7527	
SM635	Unitrode	PIC635	
		PIC7510	
		PIC7528	
SM636	Unitrode	PIC636	
		PIC7511	
		PIC7529	
SM637	Unitrode	PIC637	
		PIC7512	
		PIC7530	
SM645	Unitrode	PIC645	
		PIC7513	
		PIC7531	
SM646	Unitrode	PIC646	
		PIC7514	
		PIC7532	
SM647	Unitrode	PIC647	
		PIC7515	
		PIC7533	
SM655	Unitrode	PIC655	
		PIC7516	
		PIC7534	
SM656	Toshiba	PIC7517	
	Unitrode	PIC656	
		PIC7517	
		PIC7535	
SM657	Unitrode	PIC657	
		PIC7518	
		PIC7536	
UC3526	Unitrode	SG3526	
UC493	Cherry Semi	CS593	
	Motorola	TL493	
	TI	TL493	
	UMC	UC493	
ULS2011	Linfinity Micro	SG3851	
556-1/BCA	TI	SE556JB	

Logic Devices

Manufacturer Device	Replacement Source	Device	IC Master Page
LDI2010		WTL1010	
		WTL2010	
	AMD	AM29C510	
		AM29510	
	AD	ADSP1010	
		ADSP1101	
		ADSP1110	
	Cypress	CY7C510	
	Harris	ISP9210	
	IDT	IDT7210	
		IDT7243	
	TRWLSI	TDC1010	
		TMC2010	
		TMC2110	
		TMC2210	
	VLSI Tech	VL2010	
LF2242	TRWLSI	TMC2242	
LF2246	TRWLSI	TMC2246	
LF2249	TRWLSI	TMC2249	
LF2250	TRWLSI	TMC2250	
LMA1009	AMD	AM29C509	
	AD	ADSP1009	
	IDT	IDT7209	
	TRWLSI	TDC1009	
		TMC2009	
		TMC2109	
LMA1010		WTL1010	
		WTL2010	
	AMD	AM29C510	
		AM29510	
	AD	ADSP1010	
		ADSP1101	
		ADSP1110	
	Cypress	CY7C510	
	Harris	HMA510	
		ISP9210	
	IDT	IDT7210	
		IDT7243	
	TRWLSI	TDC1010	
		TMC2010	
		TMC2110	
		TMC2210	
LMA1010			(Con
	VLSI Tech	VL2010	
	Waferscale	WS59510	
LMA2009	AMD	AM29C509	
	AD	ADSP1009	
	IDT	IDT7209	
	TRWLSI	TDC1009	
		TMC2009	
		TMC2109	
LMA2010	IDT	IDT7210	
	Waferscale	WS59510	
LMM4016	IDT	IDT7M4016	
LMM456	IDT	IDT7MP456	
LMM624	IDT	IDT7M624	
LMM824	IDT	IDT8M824	
LMU08	AD	ADSP1080	
	TRWLSI	MPY008	
		TMC208K	
LMU112	TRWLSI	MPY112	
LMU12	AD	ADSP1012	
	IDT	IDT7212	
		MPY12	
	IMI	IMIMPY12	
	TRWLSI	MPY012	
LMU16		WTL1016	
		WTL1516	
		WTL2516	
	AMD	AM29C516	
		AM29516	
	AD	ADSP1016	
	Cypress	CY7C516	
	Harris	HMU16	
	IDT	IDT7216	
	TRWLSI	MPY016	
		TMC216	
LMU17		WTL2517	
	AMD	AM29C517	
		AM29517	
	AD	ADSP1017	
	Cypress	CY7C517	
	Harris	HMU17	
	IDT	IDT7217	
	TRWLSI	TMC217	
LMU18	AD	ADSP1024	
LMU2009	AMD	AM29C509	
	AD	ADSP1009	
	IDT	IDT7209	
	TRWLSI	TDC1009	
		TMC2009	
		TMC2109	
LMU216		WTL1016	
		WTL1516	
		WTL2517	
	AMD	AM29C516	
		AM29516	
	AD	ADSP1016	
	Cypress	CY7C516	
	Harris	HMU16	
	IDT	IDT7216	
	TRWLSI	MPY016	
		TMC216	
LMU217		WTL2517	
	AMD	AM29C517	
		AM29517	
	AD	ADSP1017	
	Cypress	CY7C517	
	Harris	HMU17	
	IDT	IDT7217	
	TRWLSI	TMC217	
LMU557	AMD	AM25S557	
		SN54557	
		SN74557	
LMU558	AMD	AM25S558	
		SN54558	
		SN74558	
LMU8	AD	ADSP1081	
	TRWLSI	MPY08	
LMU8U	AD	ADSP1081	
	TRWLSI	MPY08U	
		TMC28KU	
L10C11	TRWLSI	TDC1011	
		TDC2011	
L10C23	TRWLSI	TDC1023	
		TDC2023	
L29C101	AMD	AM29C101	
	Cypress	CY7C9101	
	IDT	IDT49C401	
L29C520	AMD	AM29C520	
		AM29520	
	Harris	**HSP9520**	**(36**
		ISP9520	**(36**
	IDT	IDT29FCT520	
	Performance	P29PCT520	

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ogic Devices (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
29C520			(Cont'd)
	Waferscale	WS59520	
		WS59521	
29C521	AMD	AM29521	
	Harris	**HSP9521**	**(3637)**
		ISP9521	**(3637)**
	IDT	IDT29FCT521	
	Performance	P29PCT521	
	Waferscale	WS59520	
		WS59521	
29C524	AMD	AM29C524	
29C525	AMD	AM29C525	
4C381	IDT	IDT7381	
429C01	Waferscale	WS5901	
53C80	AMD	AM53C80	
	NCR	NCR53C80	
	Newbridge	CA53C80	
	Samsung	KS53C80	
5380	AMD	AM5380	
	National	DP5380	
	NCR	NCR5380	
	Samsung	KS53C80	
5116		SSM6116	
	AT&T	ATT7C116	
	Cypress	CY6116	
		CY6117	
		CY7C128	
	EDI	EDI8802	
	Fujitsu	MB8416	
	GoldStar	GM76C28	
	Harris	HM6516	
	Hitachi	HM6116	
		HM6716	
	IDT	IDT6116	
	Intel	81C28	
	MicronSemi	MT5C1608	
	Motorola	MCM2016	
		MCM2018	
	NEC	µPD446	
	Performance	P4C116	
	SGS-Thomson	IMS1433	
	Sony	CXK5814	
		CXK5816	
	Toshiba	TMM2015	
		TMM2018	
	UMC	UM6116	
	Vitelic	V61C16	
	VLSI Tech	VT20C18	
		VT20C19	
7C106	AT&T	ATT7C106	
7C107	AT&T	ATT7C107	
7C108	AT&T	ATT7C108	
7C109	AT&T	ATT7C109	
7C116	AT&T	ATT7C116	
7C157	AT&T	ATT7C157	
	Cypress	CY7C157	
7C161		SSM7161	
	AT&T	ATT7C161	
	Cypress	CY7C161	
	IDT	IDT71981	
	MicronSemi	MT5C6406	
	National	F100183	
	Performance	P4C1981	
	VLSI Tech	VT16H4	
7C162		SSM7162	
	AT&T	ATT7C162	
	Cypress	CY7C162	
	IDT	IDT71982	
	MicronSemi	MT5C6407	
	Performance	P4C1982	
7C164		SSM7188	
	AMD	AM99C6404	
	AT&T	ATT7C164	
	Cypress	CY7C164	
	EDI	EDI8416	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
	IDT	IDT7188	
	Intel	M51C98	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
		MCM6289	
	National	F100181	
		F1621	
	NEC	µPD4362	
	Performance	P4C188	
	S-MOS	SRM2274	
	SGS-Thomson	IMS1620	
L7C164			(Cont'd)
	Sony	CXK5464	
	Toshiba	TC55416	
	VLSI Tech	VT64KS4	
L7C165		SSM7198	
	AT&T	ATT7C165	
	Fujitsu	MB81C75	
	IDT	IDT7198	
	National	F100182	
		F1622	
	Performance	P4C198A	
L7C166	AT&T	ATT7C166	
	Cypress	CY7C166	
	Fujitsu	MB82B75	
	Hitachi	HM6289	
		HM6789	
	IDT	IDT6198	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Motorola	MCM6290	
	National	54LS152	
	NEC	µPD4363	
	Performance	P4C198	
	S-MOS	SRM2275	
	SGS-Thomson	IMS1624	
	Sony	CXK5465	
	Toshiba	TC54417	
		TC55B417	
		TC55417	
	Vitelic	V61C62	
	VLSI Tech	VT65KS4	
L7C167		SSM6167	
	AMD	AM2167	
	AT&T	ATT7C167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
	Harris	HM65262	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Intel	51C67	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
	Motorola	MCM2167	
	NEC	µPD4311	
	S-MOS	SRM2267	
		SRM2367	
	SGS-Thomson	IMS1400	
		IMS1403	
		MK41H67	
	Sharp	LH5167	
L7C168		SSM6168	
	AMD	AM2168	
	AT&T	ATT7C168	
	Cypress	CY7C168	
	Fujitsu	MB81C68	
		MB81C69	
	Hitachi	HM6168	
		HM6268	
	IDT	IDT6168	
	Intel	51C68	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M21C68	
	Motorola	MCM1423	
		MCM6168	
	NEC	µPD4314	
	Performance	P4C168	
	SGS-Thomson	IMS1420	
		IMS1421	
		IMS1423	
		MK41H68	
	Sony	CXK5416	
	Toshiba	TMM2068	
	VLSI Tech	VT2069	
L7C170		SSM6170	
	AT&T	ATT7C170	
	Cypress	CY7C170	
	IDT	IDT61970	
	MicronSemi	MT5C1605	
	Performance	P4C170	
	SGS-Thomson	MK41H78	
	Toshiba	TMM2078	
	VLSI Tech	VT20C78	
L7C171		SSM6171	
	AT&T	ATT7C171	
	Cypress	CY7C171	
	IDT	IDT71681	
	MicronSemi	MT5C1606	
	Performance	P4C1681	
L7C172		SSM6172	
	AT&T	ATT7C172	
	Cypress	CY7C172	
	IDT	IDT71682	
	MicronSemi	MT5C1607	
	Performance	P4C1682	
L7C173	AT&T	ATT7C173	
L7C174	AT&T	ATT7C174	
		ATT71C174	
	IDT	IDT71B74	
		IDT7174	
	SGS-Thomson	MK48H74	
L7C180		SSL4180	
	AT&T	ATT7C180	
	IDT	IDT6178	
	Motorola	MCM4180	
	SGS-Thomson	MK41H80	
L7C181		SSL4181	
	AT&T	ATT7C181	
	IDT	IDT7178	
L7C183	AT&T	ATT7C183	
	Toshiba	TC55187	
L7C184	AT&T	ATT7C184	
	Toshiba	TC55188	
L7C185		SSM7164	
	AT&T	ATT7C185	
	Cypress	CY7C185	
		CY7C186	
	Fujitsu	MB81C78	
		MB8464	
	Hitachi	HM6264	
	IDT	IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	MicronSemi	MT5C6408	
	Motorola	MCM6164	
		MCM6264	
	NEC	µPD4364	
		µPD4464	
	Performance	P4C164	
	SGS-Thomson	IMS1630	
	Sony	CXK5864	
		CXK5865	
	Toshiba	TC55B88	
		TC5588	
L7C185-70	Krueger	6264-070	
L7C186	AT&T	ATT7C186	
	IDT	IDT71B65	
		IDT7165	
L7C187		SSM7187	
	AT&T	ATT7C187	
	Cypress	CY7C187	
	EDI	EDI8164	
	Fujitsu	MB81C71	
	Hitachi	HM6287	
		HM6787	
	IDT	IDT7187	
	MicronSemi	MT5C6401	
	Mosel-Vitelic	MS6287	
	Motorola	MCM6187	
		MCM6287	
	National	F1600	
		F1602	
	NEC	µPD4361	
	Performance	P4C187	
	SGS-Thomson	IMS1600	
		IMS1601	
	Sony	CXK5164	
	Toshiba	TC5561	
		TC5562	
L7C191	AT&T	ATT7C191	
	Cypress	CY7C191	
	IDT	IDT71281	
L7C192	AT&T	ATT7C192	
	Cypress	CY7C162	
	Fujitsu	MB81C86	
	IDT	IDT71282	
L7C194	AT&T	ATT7C194	
	Cypress	CY7C194	
	EDI	EDI8464	
	Fujitsu	MB81C84	
L7C194			(Cont'd)
	Hitachi	HM6208	
		HM6708	
	IDT	IDT71B258	
		IDT71258	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	NEC	µPD43254	
	OKI	MSM52464	
	Performance	P4C1258	
	S-MOS	SRM21256	
	Samsung	KM64257	
	SGS-Thomson	IMS1820	
	Sharp	LH52252	
	Toshiba	TC55464	
L7C195	AT&T	ATT7C195	
	IDT	IDT61B298	
		IDT61298	
	MicronSemi	MT5C2565	
	Toshiba	TC55465	
L7C196	AT&T	ATT7C196	
	Cypress	CY7C196	
L7C197	AT&T	ATT7C197	
	Cypress	CY7C197	
	Fujitsu	MB81C81	
		MB82B81	
	Hitachi	HM6207	
		HM6707	
	IDT	IDT71257	
	MicronSemi	MT5C2561	
	Mitsubishi	M5M5257	
	Motorola	MCM6207	
	NEC	µPD46251	
	Performance	P4C1257	
	Samsung	KM61257	
	SGS-Thomson	IMS1800	
	Sharp	LH52251	
L7C199	AT&T	ATT7C199	
	Catalyst Semi	CAT7C199	
	Cypress	CY7C198	
		CY7C199	
	EDI	EDI8833	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Hitachi	HM61256	
		HM62256	
		HM64456	
	Hyundai	HY62C256	
		HY63C256	
	IDT	IDT7M856	
		IDT71256	
		IDT8M824	
	MicronSemi	MT5C2568	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	Motorola	MCM60256	
	National	NM44251	
	NEC	µPD43256	
	OKI	MSM51257	
	Performance	P4C1256	
	S-MOS	SRM20256	
		SRM21256	
		SRM2257	
	Samsung	KM62256	
		KM68257	
	SGS-Thomson	IMS1830	
	Toshiba	TC55257	
		TC55328	
	UMC	UM62256	

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LSI Computer Systems

Manufacturer Device	Replacement Source	Device	IC Master Page
LR3000	IDT	IDT79R3000	
LR3010	IDT	IDT79R3010	
LR3020	IDT	IDT79R3020	
LS7261	National	LM621	
LS7263	National	LM621	
L64010	Harris	HMA510	
	Waferscale	WS59510	
L64012	Waferscale	WS59510	
L64135	AMD	AM29C325	
		AM29235	
R3000A	Siemens	SABR3000A	
R3010A	Siemens	SABR3010A	
R4000	Siemens	SABR4000	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Marconi Circuit Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
5114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
6167	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	

Matra-Harris

Manufacturer Device	Replacement Source	Device	IC Master Page
HM2064	**Krueger**	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
HM36116	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
80C32	**Siemens**	**SABC501-L**	**(3767)**
		SAB80C52	
80C52	**Siemens**	**SABC501-1R**	**(3767)**

Maxim

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC0820	AD	PM0820	
	Crystal	CS7280	
	National	ADC0820	
AD2700	**AD**	**REF01**	**(3536)**
	Thaler	VRE100	
AD2701	Thaler	VRE101	
AD2710	Thaler	VRE100	
AD565	Harris	HI565A	
	National	DAC1265	
AD566	National	DAC1266	
AD574	Harris	HI574	
	MicroPwr	MP574	
AD580	MicroPwr	MP5010	
AD581	**AD**	**REF01**	**(3536)**
AD674	Harris	HI674	
AD7224	AD	PM7224	
	GEC Plessey	ZN438	
AD7226	AD	PM7226	
AD7501	Unitrode	PIC7501	
AD7503	Unitrode	PIC7503	
AD7520	AD	PM7533	
	Harris	AD7520	
	MicroPwr	MP7520	
AD7521	AD	PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7521	
	MicroPwr	MP7521	
AD7522	MicroPwr	MP7522	
AD7523	AD	PM7524	
	GEC Plessey	ZN429	
	Harris	AD7523	
	MicroPwr	MP7523	
AD7524	AD	PM7524	
	GEC Plessey	ZN558	
	MicroPwr	MP7524	
AD7528	AD	PM7528	
	MicroPwr	MP7528	
AD7530	AD	PM7533	
	Harris	AD7530	
	MicroPwr	MP7530	
AD7531	AD	PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7531	
	MicroPwr	MP7531	
AD7533	AD	PM7533	
	Harris	AD7533	
	MicroPwr	MP7533	
	National	DAC1020	
		DAC1021	
		DAC1022	
AD7537	AD	DAC8248	
AD7541	AD	PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7541	
	MicroPwr	MP7541	
AD7542	MicroPwr	MP7542	
AD7543	AD	PM7543	
	MicroPwr	MP7543	
AD7545	AD	PM7545	
	Burr-Brown	**DAC7545**	**(3469)**
	Harris	AD7545	
	Maxim	MX7545	
	MicroPwr	MP7545	
AD7547	AD	DAC8222	
AD7574	AD	ADC908	
		PM7574	
	GEC Plessey	ZN448	
	MicroPwr	MP7574	
AD7581	GEC Plessey	ZN437	
AD7628	AD		
AD7820	Crystal	CS7280	
	GEC Plessey	ZN439	
	LinearTech	LTC1099	
	MicroPwr	MP0820	
	National	ADC0820	
AD7828	GEC Plessey	ZN437	
BB3553	Burr-Brown	BB3553	
		3553	**(3459)**
BB3554	AD	AD3554	
	Burr-Brown	BB3554	
		3554	**(3459)**
DGM181	Harris	DGM181	
DGM182	Harris	DGM182	
DG200	Harris	DG200	
	Siliconix	DG200	
DG201	AD	ADG201	
		SW201	
	Harris	DG201	
	LinearTech	LTC201	
	Siliconix	DG201	
DG202	AD	ADG202	
		SW202	
	Harris	DG202	
	Siliconix	DG202	
DG211	AD	ADG211	
	Harris	DG211	
	Siliconix	DG211	
DG212	AD	ADG212	
	Harris	DG212	
	Siliconix	DG212	
DG300	Harris	DG300	
	Siliconix	DG300	
DG301	Harris	DG301	
	Siliconix	DG301	
DG302	Harris	DG302	
		HI302	
	Siliconix	DG302	
DG303	Harris	DG303	
		HI303	
	Siliconix	DG303	
DG304	Harris	HI0304	
		HI304	
	Siliconix	DG304	
DG305	Harris	HI0305	
		HI305	
	Siliconix	DG305	
DG306	Harris	HI0306	
		HI306	
	Siliconix	DG306	
DG307	Harris	HI0307	
		HI307	
	Siliconix	DG307	
DG308	Siliconix	DG308	
DG309	Siliconix	DG309	
DG381	Harris	HI0381	
		HI381	
	Siliconix	DG381	
DG384	Harris	HI0384	
		HI384	
	Siliconix	DG384	
		DG405	
DG387	Harris	HI0387	
		HI387	
	Siliconix	DG387	
DG390	Harris	HI0390	
		HI390	
	Siliconix	DG390	
		DG403	
DG401	**Harris**	**DG401**	**(3637)**
	Siliconix	DG401	
DG403	**Harris**	**DG403**	**(3637)**
	Siliconix	DG403	
DG405	Harris	DG405	
	Siliconix	DG405	
DG406	Harris	DG406	
	Siliconix	DG406	
DG407	Harris	DG407	
	Siliconix	DG407	
DG408	Harris	DG408	
	Siliconix	DG408	
DG409	Harris	DG409	
	Siliconix	DG409	
DG411	Harris	DG411	
	Siliconix	DG411	
DG412	Harris	DG412	
	Siliconix	DG412	
DG413	Harris	DG413	
	Siliconix	DG413	
DG417	Siliconix	DG417	
DG418	Siliconix	DG418	
DG419	Siliconix	DG419	
DG421	Siliconix	DG421	
DG423	Siliconix	DG423	
DG425	Siliconix	DG425	
DG441	Harris	DG441	
	Siliconix	DG441	
DG442	Harris	DG442	
DG444	Harris	DG444	
	Siliconix	DG444	
DG445	Harris	DG445	
	Siliconix	DG445	
DG506	AD	ADG506	
		MUX16	
	Harris	DG506A	
	Siliconix	DG506	
DG507	AD	ADG507	
		MUX28	
	Harris	DG507A	
	Siliconix	DG507	
DG508	AD	ADG508	
		MUX08	
	Harris	DG508A	
		HI0508	
	Siliconix	DG508	
DG509	AD	ADG509	
		MUX24	
	Harris	DG509A	
		HI0509	
	Siliconix	DG509	
DG528	Harris	DG528	
	Siliconix	DG528	
DG529	Harris	DG529	
	Siliconix	DG529	
HI0201	Harris	HI0201	
HI0508	Burr-Brown	HI508A	
		MPC508	
HI0509	Burr-Brown	HI508A	
		MPC509	
HI506	Harris	HI506	
HI507	Harris	HI507	
HI509	Harris	HI509	
ICL7106	GEC Plessey	ZN451	
	Harris	ICL7106	
	TeledyneC	TC7106	
		TSC7106	
ICL7107	Harris	ICL7107	
	TeledyneC	TC7107	
		TSC7107	
ICL7109	Harris	ICL7109	
	TeledyneC	TC7109	
		TSC7109	
ICL7109A	TeledyneC	TC7109A	
ICL7116	Harris	ICL7116	
	TeledyneC	TC7116	
		TSC7116	
ICL7117	Harris	ICL7117	
	TeledyneC	ICL7117	
		TC7117	
		TSC7117	
ICL7126	GEC Plessey	ZN451	
	Harris	ICL7126	
	TeledyneC	TC7126	
		TSC7126	
ICL7129	Harris	ICL7129	
	TeledyneC	TC7129	
		TSC7129	
ICL7129A	TeledyneC	TC7129	
ICL7135	Harris	ICL7135	
	Siliconix	SI7135	
	TeledyneC	TC7135	
		TSC7135	
ICL7136	GEC Plessey	ZN451	
	Harris	ICL7136	
	TeledyneC	TC7136	
		TSC7136	
ICL7137	Harris	ICL7137	
ICL7611	AD	OP22	
	Harris	ICL7611	
	TI	TLC251	
		TLC271	
ICL7612	AD	OP22	
	Harris	ICL7612	
	TI	TLC251	
		TLC271	
ICL7613	TI	TLC271	
ICL7614	AD	OP22	
	Harris	ICL7614	
ICL7616	AD	OP22	
ICL7621	Harris	ICL7621	
	TI	TLC252	
		TLC272	
ICL7622	Harris	ICL7622	
ICL7631	Harris	ICL7631	
ICL7632	Harris	ICL7632	
ICL7641	Harris	ICL7641	
	TI	TLC27L9	
		TLC274	
ICL7642	Harris	ICL7642	
	TI	TLC27M9	
ICL7650	AD	OP177	
	Harris	ICL7650	
		ICL7650S	
	LinearTech	LTC1052	
	TeledyneC	TC7650	
		TSC7650	
ICL7652	AD	OP177	
	Harris	ICL7652	
	LinearTech	LTC7652	
	Siliconix	SI7652	
	TeledyneC	TC7652	
		TSC7652	
	TI	TLC2652	
		TLC2654	
ICL7660	**Harris**	**ICL7660**	**(363**
		ICL7660S	**(363**
	LinearTech	LTC1044	
	Siliconix	SI7660	
	TeledyneC	TC7660	
		TSC7660	
ICL7662	**Harris**	**ICL7662**	**(363**
	TeledyneC	TC7662	
		TC7662A	
ICL7663	Harris	ICL7663	
ICL7664	Harris	ICL7664	
ICL7665	Harris	ICL7665	
		ICL7665S	
ICL7667	**Harris**	**ICL7667**	**(363**
	Micrel	**MIC426**	**(368**
		MIC4426	**(368**
ICL8069	AD	AD589	
	Harris	ICL8069	
	TeledyneC	TSC9491	
ICM7211	Harris	ICM7211	
	TeledyneC	TC7211	
		TSC7211	
ICM7211A	TeledyneC	TC7211A	
ICM7212	Harris	ICM7212	
	TeledyneC	TC7212	
		TSC7212	
ICM7212A	TeledyneC	TC7212A	
ICM7217	Harris	ICM7217	
ICM7218	Harris	ICM7218	
		ICM7228	
ICM7224	Harris	ICM7224	
ICM7225	Harris	ICM7225	
ICM7240	Exar	XR2240	
	Harris	ICM7240	
ICM7242	Exar	XR2242	
	Harris	ICM7242	
ICM7250	Harris	ICM7250	
ICM7555	Harris	ICM7555	
	Holt	HI7555	
	TI	TLC555	
ICM7556	Harris	ICM7556	
IC5040	Harris	HI5040	
IC5041	Harris	HI5041	
IH5040	Harris	HI5040	
		IH5040	
IH5041	Harris	HI5041	
		IH5041	
	Siliconix	DG401	
IH5042	Harris	HI5042	
		IH5042	
IH5043	Harris	HI5042	
		HI5043	
		IH5043	
	Siliconix	DG403	
		DG5043	
IH5044	Harris	HI5044	
		IH5044	
IH5045	Harris	HI5045	
		IH5045	
	Siliconix	DG405	
IH5048	Harris	HI5048	
		IH5048	
IH5049	Harris	HI5049	
		IH5049	
IH5050	Harris	HI5050	
		IH5050	
IH5051	Harris	HI5051	
		IH5051	
		IH5151	
IH5108	Harris	IH5108	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Maxim (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
IH5140	Harris	IH5140	
	Siliconix	DG5140	
IH5141	Harris	IH5141	
	Siliconix	DG401	
		DG5141	
IH5142	Harris	IH5141	
		IH5142	
	Siliconix	DG5142	
IH5143	Harris	IH5143	
	Siliconix	DG403	
		DG5143	
IH5144	Harris	IH5144	
	Siliconix	DG5144	
IH5145	Harris	IH5145	
	Siliconix	DG405	
		DG5145	
IH5148	Harris	HI5048	
		IH5148	
IH5208	Harris	IH5208	
IH5341	Harris	IH5341	
IH5352	Harris	IH532	
		IH5352	
IH6108	Harris	IH6108	
	Siliconix	DG508	
IH6116	Harris	IH6116	
	Siliconix	DG506	
IH6208	Harris	IH6208	
	Siliconix	DG590	
IH6216	Harris	IH6216	
	Siliconix	DG507	
LH0033	AD	ADLH0033	
	Elantec	ELH0033	
	National	LH0033	
LH0063	National	LH0063	
LH0101	Elantec	ELH0101	
	National	LH0101	
LTC1062	LinearTech	LTC1062	
LT1001	AD	AD517	
		OP07	
		OP177	
		OP77	
	Harris	HA5177	
LT1028	LinearTech	LT1028	
MAX1232	Crystal	CS1232	
	Dallas	DS1232	
	LinearTech	LTC1232	
MAX131	Harris	HI5701	
		HI7131	
		ICL7136	
MAX136	Harris	ICL7116	
MAX153	AD	AD7821	
MAX154	AD	AD7824	
MAX158	AD	AD7828	
MAX160	AD	ADC908	
		AD7574	
	MicroPwr	MP7574	
MAX161	AD	AD7581	
	MicroPwr	MP7581	
MAX162	AD	AD7572	
	LinearTech	LTC1272	
MAX163	LinearTech	LTC1272	
MAX172	AD	AD7572	
MAX173	Harris	HI7152	
MAX174	Burr-Brown	ADC774	
	Harris	HI774	
MAX177	Harris	HI7151	
MAX178	AD	AD7578	
MAX180	National	ADC12451	
MAX182	AD	AD7582	
MAX230	Sipex	SP230	
MAX231	Sipex	SP231	
MAX232	Harris	ICL232	
	LinearTech	LT1081	
	Sipex	SP232	
	TeledyneC	TC232	
MAX233	Sipex	SP233	
MAX234	Sipex	SP234	
MAX235	LinearTech	LT1130	
	Sipex	SP235	
MAX236	Sipex	SP236	
MAX237	LinearTech	LT1132	
	Sipex	SP237	
MAX238	LinearTech	LT1134	
	Sipex	SP238	
MAX239	LinearTech	LT1133	
	Sipex	SP239	
MAX241	LinearTech	LT1136	
	Sipex	SP241	
MAX331	Siliconix	DG441	
MAX332	Siliconix	DG442	
MAX358	Burr-Brown	HI508A	
		MPC508	
	Harris	HI0508	
		HI0548	
		HI508	
		HI548	
	Siliconix	DG458	
MAX359	Burr-Brown	HI509A	
		MPC509	
	Harris	HI0548	
		HI0549	
		HI509	
		HI549	
	Siliconix	DG459	
MAX378	Harris	HI0548	
		HI548	
MAX379	Harris	HI0549	
		HI549	
MAX400	AD	AD517	
		OP177	
		OP77	
	LinearTech	LT1001	
MAX408	LinearTech	LT1190	
		LT1191	
		LT1192	
MAX4193	Raytheon	RC4193	
		RM4193	
		RV4193	
MAX420	AD	OP177	
	Harris	ICL420	
	LinearTech	LTC1150	
	TeledyneC	TC9420	
MAX421	AD	OP177	
	Harris	ICL421	
	TeledyneC	TC9421	
MAX422	Harris	ICL422	
	LinearTech	LTC1150	
MAX423	AD	OP177	
	Harris	ICL423	
MAX428	Elantec	EL2244	
MAX430	AD	OP177	
	LinearTech	LTC1050	
		LTC1150	
MAX432	AD	OP177	
	LinearTech	LTC1050	
		LTC1150	
MAX4391	Raytheon	RC4391	
		RM4391	
		RV4391	
MAX452	LinearTech	LT1190	
		LT1191	
		LT1192	
MAX454	Burr-Brown	MPC100	
MAX460	Elantec	EL2005	
	Harris	HA5033	
MAX480	AD	OP90	
	LinearTech	LT1077	
MAX502	**AD**	**AD7845**	(3516)
MAX505	AD	AD7225	
MAX506	AD	AD7226	
MAX543	AD	DAC8043	
		DAC80436	
	Burr-Brown	**DAC543**	(3469)
MAX626	**Harris**	**ICL7667**	(3638)
	TeledyneC	TC4423	
MAX627	TeledyneC	TC4424	
MAX628	TeledyneC	TC4425	
MAX630	LinearTech	LT1173	
	Raytheon	RC4190	
		RC4191	
		RC4193	
		RM4191	
		RV4191	
MAX631	LinearTech	LT1173	
MAX631C	Micrel	MIC631	
MAX631M	Micrel	MIC631	
MAX632	LinearTech	LT1173	
MAX633	**Harris**	**ICL7663S**	(3638)
	LinearTech	LT1173	
MAX634	LinearTech	LT1173	
	Raytheon	RC4391	
MAX635	LinearTech	LT1173	
MAX636	LinearTech	LT1173	
MAX637	LinearTech	LT1173	
MAX638	LinearTech	LT1173	
MAX641	LinearTech	LT1173	
MAX641C	Micrel	MIC641	
MAX641M	Micrel	MIC641	
MAX642	LinearTech	LT1173	
MAX643	LinearTech	LT1173	
MAX654	Harris	ICL644	
	LinearTech	LT1073	
MAX655	Harris	ICL645	
	LinearTech	LT1173	
MAX656	Harris	ICL646	
	LinearTech	LT1073	
MAX657	Harris	ICL647	
	LinearTech	LT1073	
MAX658	LinearTech	LT1173	
MAX659	LinearTech	LT1173	
MAX660	**Harris**	**ICL7660**	(3638)
	LinearTech	LT1054	
MAX664	Harris	ICL7664	
MAX666	Harris	ICL7663	
MAX667	**Harris**	**ICL7667**	(3638)
MAX674	**AD**	**REF01**	(3536)
MAX675	AD	REF02	
	LinearTech	LT1019	
MAX680	LinearTech	LT1026	
MAX690	LinearTech	LTC690	
MAX691	LinearTech	LTC691	
MAX694	LinearTech	LTC694	
MAX695	LinearTech	LTC695	
MAX7129	Harris	ICL7129	
MAX7129A	TeledyneC	TC7129	
MAX7231	Harris	ICM7231	
MAX7232	Harris	ICM7232	
MAX7233	Harris	ICM7233	
MAX7234	Harris	ICM7234	
MAX8211	**Harris**	**ICL8211**	(3638)
MAX8212	**Harris**	**ICL8212**	(3638)
MAX9685	AMD	AM6685	
		AM685	
	AD	AD9685	
	Harris	HFA0003	
	Honeywell	HCMP96850	
MAX9686	AMD	AM686	
	LinearTech	LT1001	
		LT1016	
MAX9687	AMD	AM6687	
		AM687	
	AD	AD9687	
	Honeywell	HCMP96870	
MAX9690	AD	CMP08	
	Harris	HFA0003	
MA723	Harris	CA0723	
MC2681	Exar	XR88C681	
MC34072	Exar	XR34072	
MC34074	Exar	XR34074	
MC34118	Exar	XRT65118	
MC34119	Exar	XRT65119	
MC68681	Exar	XR68C681	
MF10	Exar	XR1010	
	LinearTech	LTC1060	
	National	MF10	
	TI	TLC10	
		TLC20	
MM74C945	National	MM74C941	
		MM74C945	
MM74C947	National	MM74C946	
		MM74C947	
MX151	Harris	HI7152	
MX2700	AD	AD2700	
	Sipex	HS2700	
MX2701	AD	AD2701	
	Sipex	HS2701	
MX3554	AD	AD3554	
	Burr-Brown	BB3554	
MX359	Harris	HI0509	
MX536	AD	AD536	
MX565	AD	AD565	
	Harris	HI565	
		HI565A	
	National	DAC1265	
MX566	AD	AD566	
MX574	AD	AD574	
	Burr-Brown	ADC574	
	Harris	HI574	
	Honeywell	HADC574	
	Sipex	HS574	
MX574A	Signal Proc	HADC574Z	
MX578	AD	AD578	
MX580	AD	AD580	
MX581	AD	AD581	
MX584	AD	AD584	
MX636	AD	AD636	
MX674	AD	AD674	
	Burr-Brown	ADC674	
	Harris	HI674	
	Sipex	SP674	
MX674A	Signal Proc	HADC674Z	
MX7224	AD	AD7224	
		PM7224	
MX7225	AD	AD7225	
MX7226	AD	AD7226	
	MicroPwr	MP7226	
MX7228	**AD**	**AD7228**	(3538)
	MicroPwr	MP7228	
MX7245	AD	AD7245	
MX7248	AD	AD7248	
MX7501	AD	AD7501	
MX7502	AD	AD7502	
MX7503	AD	AD7503	
MX7506	AD	AD7506	
MX7507	AD	AD7507	
	Siliconix	DG507	
MX7520	AD	AD7520	
	Harris	AD7520	
	MicroPwr	MP7633	
	Unitrode	PIC7520	
MX7521	AD	AD7521	
	Harris	AD7521	
	MicroPwr	MP7623	
MX7523	AD	AD7523	
	Harris	AD7523	
	Unitrode	PIC7523	
MX7524	AD	AD7524	
		PM7524	
	MicroPwr	MP7524	
MX7528	AD	AD7528	
		PM7528	
	MicroPwr	MP7528	
MX7530	AD	AD7530	
	Harris	AD7530	
	MicroPwr	MP7633	
	Unitrode	PIC7530	
MX7531	AD	AD7531	
	Harris	AD7531	
	MicroPwr	MP7623	
	Unitrode	PIC7531	
MX7533	AD	AD7533	
		PM7533	
	Harris	AD7533	
	MicroPwr	MP7533	
	Siliconix	SI7533	
	Unitrode	PIC7533	
MX7534	AD	AD7534	
MX7535	AD	AD7535	
MX7536	AD	AD7536	
MX7537	**AD**	**AD7537**	(3517)
		DAC8248	
MX7538	**AD**	**AD7538**	(3517)
	Sipex	SP7538	
MX7541	AD	AD7541	
		PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7541	
	Honeywell	HDAC7541	
	Siliconix	SI7541	
	Sipex	HS7541	
MX7541A	MicroPwr	MP7541A	
MX7542	AD	AD7542	
		PM7542	
	Honeywell	HDAC7542	
	MicroPwr	MP7542	
MX7543	AD	AD7543	
		PM7543	
	Honeywell	HDAC7543	
MX7545	AD	AD7545	
		PM7545	
	Burr-Brown	**DAC7545**	(3469)
	Harris	AD7545	
	Honeywell	HDAC7545	
	Maxim	AD7545	
	Siliconix	SI7545	
MX7547	AD	AD7547	
		DAC8222	
MX7548	AD	AD7548	
		PM7548	
MX7549	AD	AD7549	
MX7572	AD	AD7572	
	Harris	HI5812	
	LinearTech	LTC1272	
MX7574	AD	AD7574	
		PM7574	
	MicroPwr	MP7574	
MX7575	AD	AD7575	
MX7576	AD	AD7576	
MX7578	AD	AD7578	
MX7581	AD	AD7581	
	MicroPwr	MP7581	
MX7582	AD	AD7582	
MX7628	**AD**	**AD7628**	(3517)
		PM7628	
MX7672	AD	AD7672	
MX774	Harris	HI774	
	Signal Proc	SPT774	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Maxim (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MX7820	AD	AD7820	
		PM0820	
	LinearTech	LTC1099	
	Siliconix	SI7820	
MX7821	AD	AD7821	
MX7824	AD	AD7824	
MX7828	AD	AD7828	
MX7845	**AD**	**AD7845**	(3516)
OP07	AD	ADOP07	
		OP07	
		OP177	
	LinearTech	OP07	
	Raytheon	OP07	
OP27	LinearTech	OP27	
	Motorola	OP27	
OP37	Harris	HA5137	
OP90	AD	OP90	
PM7542	AD	PM7542	
REF01	AD	ADREF01	
		REF01	(3536)
	Burr-Brown	REF01	
		REF102	(3467)
	Motorola	MC1404	
	TeledyneC	REF01	
REF02	AD	REF02	
	Burr-Brown	REF02	
	Motorola	MC1404	
	TeledyneC	REF02	
SG307	Siliconix	DG307	
SI7661	**Harris**	**ICL7662**	(3638)
TSC426	**Harris**	**ICL7667**	(3638)
	Micrel	**MIC426**	(3688)
		MIC4426	(3688)
	TeledyneC	TC426	
		TSC426	
TSC427	TeledyneC	TC427	
		TSC427	
TSC428	TeledyneC	TC428	
		TSC428	
7506	Siliconix	DG506	

Micrel

Manufacturer Device	Replacement Source	Device	IC Master Page
LP2950	National	LP2950	
LP2954	National	LP2954	
MIC0013	Holt	HI8020	
MIC1426	TeledyneC	TC1426	
♦ MIC1426	**Harris**	**ICL7667**	(3638)
	IXYS	IXLD1426	
	Linfinity Micro	SG1626	
		SG1644	
		SG2626	
		SG2644	
		SG3626	
		SG3644	
♦ MIC1426	Maxim	ICL7667	
		TSC4261A	
♦ MIC1426	Motorola	MH0026	
	National	DS0026	
		NHM0026	
♦ MIC1426	Siliconix	SG1626	
		SG2626	
		SG3626	
♦ MIC1426	TeledyneC	TSC1426	
MIC1427	IXYS	IXLD1427	
	TeledyneC	TSC1427	
MIC1428	IXYS	IXLD1428	
	TeledyneC	TSC1428	
MIC1574	National	LM1574	
MIC1575	National	LM1575	
MIC1576	National	LM1576	
MIC2574	National	LM2574	
MIC2575	National	LM2575	
MIC2576	National	LM2576	
MIC2937A	National	LP2937	
MIC2940A	National	LP2940	
MIC2941A	National	LP2941	
MIC2950	National	LP2950	
MIC2951	National	LP2951	
MIC2954	National	LP2954	
MIC38C42	Astec Semi	AS3842	
	Cherry Semi	CS3842A	
	GoldStar	GL3842	
	Linfinity Micro	SG3842	
	Motorola	UC3842A	
	Philips	UC3842	
	Samsung	KA3842	
	SGS-Thomson	UC3842	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MIC38C42			(Cont'd)
	Unitrode	UC3842	
		UC3842A	
MIC38C43	Astec Semi	AS3843	
	Cherry Semi	CS3843A	
	Linfinity Micro	SG3843	
	Motorola	UC3843A	
	SGS-Thomson	UC3843	
	Unitrode	UC3843	
		UC3843A	
MIC38C44	Astec Semi	AS3844	
	Cherry Semi	CS3844	
	Linfinity Micro	SG3844	
	Motorola	UC3844	
	SGS-Thomson	UC3844	
	Unitrode	UC3844	
		UC3844A	
MIC38C45	Allegro Micro	ULN3845	
	Astec Semi	AS3845	
	Cherry Semi	CS3845	
	Linfinity Micro	SG3845	
	Motorola	UC3845	
	SGS-Thomson	L3845	
		UC3845	
	Unitrode	UC3845	
		UC3845A	
MIC38HC42	Astec Semi	AS3842	
	Cherry Semi	CS3842A	
	GoldStar	GL3842	
	Linfinity Micro	SG3842	
	Motorola	UC3842A	
	Philips	UC3842	
	Samsung	KA3842	
	SGS-Thomson	UC3842	
	Unitrode	UC3842	
		UC3842A	
MIC38HC43	Astec Semi	AS3843	
	Cherry Semi	CS3843A	
	Linfinity Micro	SG3843	
	Motorola	UC3843A	
	SGS-Thomson	UC3843	
	Unitrode	UC3843	
		UC3843A	
MIC38HC44	Astec Semi	AS3844	
	Cherry Semi	CS3844	
	Linfinity Micro	SG3844	
	Motorola	UC3844	
	SGS-Thomson	UC3844	
	Unitrode	UC3844	
		UC3844A	
MIC38HC45	Allegro Micro	ULN3845	
	Astec Semi	AS3845	
	Cherry Semi	CS3845	
	Linfinity Micro	SG3845	
	Motorola	UC3845	
	SGS-Thomson	L3845	
		UC3845	
	Unitrode	UC3845	
		UC3845A	
MIC426	**Harris**	**ICL7667**	(3638)
	IXYS	IXLD426	
	Linfinity Micro	SG1626	
		SG1644	
		SG2626	
		SG2644	
		SG3626	
		SG3644	
	Maxim	ICL7667	
		TSC426	
	Motorola	MH0026	
	National	DS0026	
		NHM0026	
	Siliconix	SG1626	
		SG2626	
		SG3626	
	TeledyneC	TC426	
		TSC426	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MIC427	IXYS	IXLD427	
	TeledyneC	TC427	
		TSC427	
MIC428	IXYS	IXLD428	
	TeledyneC	TC428	
		TC4428	
		TSC428	
MIC4350	**Lansdale**	**ML4350**	(3667)
	Motorola	MC4350	
MIC44	TeledyneC	TC44	
MIC4401	TeledyneC	TSC4401	
MIC4403	TeledyneC	TSC4403	
MIC4420	IXYS	IXLD4420	
	TeledyneC	TC4420	
		TSC4420	
MIC4421	TeledyneC	TSC4421	
MIC4422	TeledyneC	TSC4422	
MIC4423	TeledyneC	TC4423	
♦ MIC4423	**Harris**	**ICL7667**	(3638)
	IXYS	IXLD4423	
	Linfinity Micro	SG1626	
		SG1644	
		SG2626	
		SG2644	
		SG3626	
		SG3644	
♦ MIC4423	Maxim	ICL7667	
		TSC426	
♦ MIC4423	Motorola	MH0026	
	National	DS0026	
		NHM0026	
♦ MIC4423	Siliconix	SG1626	
		SG2626	
		SG3626	
♦ MIC4423	TeledyneC	TSC4423	
MIC4424	IXYS	IXLD4424	
	TeledyneC	TC4424	
		TSC4424	
MIC4425	IXYS	IXLD4425	
	TeledyneC	TC4425	
		TSC4425	
MIC4426	**Harris**	**ICL7667**	(3638)
	IXYS	IXLD4426	
	Linfinity Micro	SG1626	
		SG1644	
		SG2626	
		SG2644	
		SG3626	
		SG3644	
	Maxim	ICL7667	
		TSC426	
	Motorola	MH0026	
	National	DS0026	
		NHM0026	
	Siliconix	SG1626	
		SG2626	
		SG3626	
	TeledyneC	TC4426	
		TSC4426	
MIC4427	IXYS	IXLD4427	
	TeledyneC	TC4427	
		TSC4427	
MIC4428	IXYS	IXLD4428	
	TeledyneC	TC4428	
		TSC4428	
MIC4429	IXYS	IXLD4429	
	TeledyneC	TC4429	
		TSC4429	
♦ MIC4465	TeledyneC	TSC4465	
♦ MIC4466	TeledyneC	TSC4466	
MIC4467	TeledyneC	TSC4467	
MIC4468	TeledyneC	TSC4468	
MIC4469	TeledyneC	TSC4469	
MIC5002	**Toshiba**	**TC5002B**	(3838)
MIC58P01	Allegro Micro	UCN5801A	
MIC58P42	Allegro Micro	UCN5841A	
		UCN5842A	
MIC5800	Allegro Micro	UCN5800A	
MIC5801	Allegro Micro	UCN5801A	
MIC5821	Allegro Micro	UCN5821A	
MIC5822	Allegro Micro	UCN5822A	
♦ MIC5823	Allegro Micro	UCN5823A	
MIC5841	Allegro Micro	UCN5841A	

Manufacturer Device	Replacement Source	Device	IC Maste Pag
MIC5842	Allegro Micro	UCN5842A	
MIC5843	Allegro Micro	UCN5843A	
MIC5890	Allegro Micro	UCN5890A	
MIC5891	Allegro Micro	UCN5891A	
MIC631	Burr-Brown	PWR631	
	IXYS	IXPD631	
	Maxim	MAX631C	
		MAX631M	
MIC641	AEG Corp	U641B	
	GEC Plessey	SL641C	
	Maxim	MAX641C	
		MAX641M	
	Siliconix	DG641	
♦ MIC7233	Harris	ICM7233	
	Maxim	ICM7233	
♦ MIC74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
♦ MIC74HCT240	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
♦ MIC74HCT240	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
♦ MIC74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
♦ MIC74HCT241	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
♦ MIC74HCT241	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	(3836
♦ MIC74HCT242	Harris	CD74HCT242	
	Philips	74HCT242	
	TI	SN74HCT242	
♦ MIC74HCT243	Harris	CD74HCT243	
	Philips	74HCT243	
	TI	SN74HCT243	
♦ MIC74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
♦ MIC74HCT244	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
♦ MIC74HCT244	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	(3836
♦ MIC74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
♦ MIC74HCT245	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	(3836
♦ MIC74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	

(Continued

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Micrel (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MIC74HCT373	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
MIC74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
MIC74HCT374	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
MIC74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
MIC74HCT533	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
MIC74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
MIC74HCT534	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
MIC74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
MIC74HCT540	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(3836)**
MIC74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
MIC74HCT541	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(3836)**
MIC74HCT563	GEC Plessey	MV74HCT563	
		74HCT563	
MIC74HCT563	Harris	CD74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
♦ MIC74HCT563 (Cont'd)	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	**(3836)**
♦ MIC74HCT564	GEC Plessey	MV74HCT564	
		74HCT564	
♦ MIC74HCT564	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	**(3836)**
♦ MIC74HCT573	GEC Plessey	MV74HCT573	
		74HCT573	
♦ MIC74HCT573	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
♦ MIC74HCT574	GEC Plessey	MV74HCT574	
		74HCT574	
♦ MIC74HCT574	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**
MIC8010	American Micro	S4520	
	Holt	HI8010	
MIC8011	American Micro	S4521	
	Holt	HI8010	
MIC8014	Holt	HI8020	
MM54C04	National	MM54C04	
MM54C14	National	MM54C14	
MM54C160	National	MM54C160	
MM54C161	National	MM54C161	
MM54C162	National	MM54C162	
MM54C163	National	MM54C163	
MM54C173	National	MM54C173	
MM54C174	National	MM54C174	
MM54C175	National	MM54C175	
MM54C192	National	MM54C192	
MM54C193	National	MM54C193	
MM54C200	National	MM54C200	
MM54C240	National	MM54C221	
		MM54C240	
MM54C244	National	MM54C244	
MM54C374	National	MM54C373	
		MM54C374	
MM54C42	National	MM54C42	
MM54C85	National	MM54C83	
		MM54C85	
MM54C86	National	MM54C86	
MM54C89	National	MM54C89	
MM54C901	National	MM54C90	
		MM54C901	
MM54C902	National	MM54C902	
MM54C903	National	MM54C903	
MM54C904	National	MM54C904	
MM54C905	National	MM54C905	
MM54C906	National	MM54C906	
MM54C907	National	MM54C907	
MM54C914	National	MM54C914	
MM54C941	National	MM54C932	
		MM54C941	
MM5450	National	MM5450	
	SGS-Thomson	M5450	
MM5451	National	MM5451	
	SGS-Thomson	M5451	

Micro Linear

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC0808	National	ADC0808	
		ADC0809	
ADC0809	National	ADC0809	
ADC0831	National	ADC0831	
ADC0832	National	ADC0832	
ADC0833	National	ADC0833	
ADC0834	National	ADC0834	
ADC0838	National	ADC0838	
ML117	Cherry Semi	CS117	
	Exar	XR117	
	SiliconSys	SSI32R117	
	VTC	VM117	
ML117-2C	Exar	XR117-2C	
	SiliconSys	SSI32R117-2	
	VTC	VM117-2	
ML117-4C	Exar	XR117-4C	
	SiliconSys	SSI32R117-4	
	VTC	VM117-4	
ML117-6C	Exar	XR117-6C	
	SiliconSys	SSI32R117-6	
	VTC	VM117-6	
ML117R-2C	Exar	XR117R-2C	
	SiliconSys	SSI32R117R-2	
	VTC	VM117R-2C	
ML117R-4C	Exar	XR117R-4C	
	SiliconSys	SSI32R117R-4	
	VTC	VM117R-4	
ML117R-6C	Exar	XR117R-6C	
	SiliconSys	SSI32R117R-6	
	VTC	VM117R-6	
ML1825	Unitrode	UC1825	
ML2110	LinearTech	LTC1060	
	National	MF10	
ML2110BC	LinearTech	LT1060AC	
	National	MF10AC	
ML2110BI	LinearTech	LT1060AC	
ML2110BM	LinearTech	LT1060AM	
ML2110CC	LinearTech	LT1060C	
	National	MF10CC	
ML2110CI	LinearTech	LT1060C	
	National	MF10CC	
ML2110CM	LinearTech	LT1060M	
	National	MF10A	
ML2111	National	LMF100	
ML2111CC	National	LMF100CC	
ML2258	National	ADC0808	
		ADC0809	
	TI	ADC0808	
		ADC0809	
ML2258BC	TI	ADC0808F	
ML2258BI	National	ADC0808CC	
	TI	ADC0808N	
ML2258BM	National	ADC0808C	
	TI	ADC0808M	
ML2258CC	TI	ADC0809F	
ML2258CI	National	ADC0809CC	
	TI	ADC0809N	
ML2261	National	ADC0820	
	TI	TLC0820	
ML2261BC	AD	ADC0820BC	
		AD7820L	
	TI	TLC0820BC	
ML2261BI	AD	ADC0820BC	
		AD7820C	
ML2261BM	AD	AD7820U	
ML2261CC	AD	ADC0820CC	
		AD7820K	
	TI	TLC0820AC	
ML2261CI	AD	ADC0820CC	
		AD7820B	
ML2261CM	AD	ADC0820C	
		AD7820T	
ML2264BC	**AD**	**AD7824L**	**(3509)**
ML2264BI	**AD**	**AD7824C**	**(3509)**
ML2264BM	**AD**	**AD7824U**	**(3509)**
ML2264CC	**AD**	**AD7824K**	**(3509)**
ML2264CI	**AD**	**AD7824B**	**(3509)**
ML2264CM	**AD**	**AD7824T**	**(3509)**
ML2271	National	ADC1061	
ML2271CC	National	ADC1061CI	
ML2271CI	National	ADC1061CI	
ML2271CM	National	ADC1061CM	
ML2281	National	ADC0831	
	TI	ADC0831	
ML2281BC	National	ADC0831BC	
	TI	ADC0831BC	
ML2281BI	National	ADC0831BC	
	TI	ADC0831BI	
ML2281CC	National	ADC0831CC	
	TI	ADC0831AC	
ML2281CI	National	ADC0831CC	
	TI	ADC0831AI	
ML2282	National	ADC0832	
	TI	ADC0832	
ML2282BC	National	ADC0832BC	
	TI	ADC0832BC	
ML2282BI	National	ADC0832BC	
	TI	ADC0832BI	
ML2282CC	National	ADC0832CC	
	TI	ADC0832AC	
ML2282CI	National	ADC0832CC	
	TI	ADC0832AI	
ML2283	National	ADC0833	
ML2283BC	National	ADC0833BC	
ML2283BI	National	ADC0833BC	
ML2283BM	National	ADC0833B	
ML2283CC	National	ADC0833CC	
ML2283CI	National	ADC0833CC	
ML2284	National	ADC0834	
	TI	ADC0834	
ML2284BC	National	ADC0834BC	
	TI	ADC0834BC	
ML2284BI	National	ADC0834BC	
	TI	ADC0834BI	
ML2284CC	National	ADC0834CC	
	TI	ADC0834AC	
ML2284CI	National	ADC0834CC	
	TI	ADC0834AI	
ML2288	National	ADC0838	
	TI	ADC0838	
ML2288BC	National	ADC0838BC	
	TI	ADC0838CC	
ML2288BI	National	ADC0838BC	
	TI	ADC0838BI	
ML2288CC	National	ADC0838CC	
	TI	ADC0838AC	
ML2288CI	National	ADC0838CC	
	TI	ADC0838AI	
ML4025	Adaptec	AIC6225	
ML4042C	SiliconSys	SSI32P541A	
		SSI32P541B	
ML4410	Hitachi	HA13481S	
ML4568-2C	National	DP8468B-2	
ML4568-3C	National	DP8468B-3	
ML4823	Unitrode	UC1823	
		UC2823	
		UC3823	
ML4825	Unitrode	UC1825	
		UC2825	
		UC3825	
ML501	SiliconSys	SSI32R501	
	VTC	VM217	
ML501-6C	National	µA5016	
		DP5016	
	SiliconSys	SSI32R501-6	
	VTC	VM217-6	
ML501-8C	National	µA5018	
		DP5018	
	SiliconSys	SSI32R501-8	
	VTC	VM217-8	
ML501R-6C	National	µA5016R	
		DP5016R	
	SiliconSys	SSI32R501R-6	
ML501R-8C	National	µA5018R	
		DP5018R	
	SiliconSys	SSI32R501R-8	
ML510A	Cherry Semi	CS510A	
ML511	Hitachi	HA166008	
	SiliconSys	**SSI32R511**	**(3778)**
ML511-4C	SiliconSys	SSI32R511-4	
ML511-6C	SiliconSys	SSI32R511-6	
ML511-8C	SiliconSys	SSI32R511-8	
ML511R	Cherry Semi	CS511	
ML511R-4C	SiliconSys	SSI32R511R-4	
ML511R-6C	SiliconSys	SSI32R511R-6	
ML511R-8C	SiliconSys	SSI32R511R-8	
ML541	Cherry Semi	CS541	
	SiliconSys	SSI32P541	
ML541C	SiliconSys	SSI32P541	
ML8464	Krueger	8464	
	National	DP8464	
ML8464B-2C	National	DP8464B-2	
ML8464B-3C	National	DP8464B-3	

Micro Networks

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC80	AD	ADADC80	
	Burr-Brown	ADC80	
	Datel	ADCHT	
	Harris	HI674	
ADC84	Adv Analog	ADC84	
	AD	ADC84	
	Burr-Brown	ADC84	
	Datel	ADCHX	
		ADCHZ	
		ADC885	
	Harris	HI674	
	Sipex	ADC581	
		ADC85	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Micro Networks (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC85	Adv Analog	ADC85	
	AD	ADADC85	
		ADC85	
	Burr-Brown	ADCHZ	
		ADC85	
	Datel	ADCHX	
		ADCHZ	
		ADC885	
	ILC-DDC	ADC85	
		ADH8585	
	Sipex	ADC581	
		ADC85	
		ADC85C	
ADC87	Adv Analog	ADC87	
	AD	ADADC85S	
	Burr-Brown	ADC87	
	Datel	ADCHX	
		ADCHZ	
		ADC885	
	ILC-DDC	ADC87	
	MicroNet	**ADC87**	**(3690)**
	Sipex	ADC58B	
		ADC581	
		ADC85	
ADS574	Burr-Brown	ADS574	
ADS774	Burr-Brown	ADS774	
ADS7800	Burr-Brown	ADS7800	
	Sipex	SP7800	
DACHK	Adv Analog	DACHK	
	Datel	DACHK	
DAC71	Harris	ICL7121	
♦ DAC71	AD	ADDAC71	
	Burr-Brown	DAC71	
		DAC72	
♦ DAC71	Datel	DAC71	
		DAC72	
DAC80	AD	ADDAC80	
	Burr-Brown	DAC80	
		DAC800	
		DAC850	
	Datel	DACHZ	
	Harris	HIDAC80	
		HI5685	
		HI685	
	National	DAC1280	
	Sipex	DAC9356	
		HSDAC80	
	TeledyneP	TPDAC80	
DAC85	AD	ADDAC85	
	Burr-Brown	DAC800	
		DAC85	
		DAC850	
	Datel	DACHZ	
	Harris	HIDAC85	
		HI5685	
		HI685	
	National	DAC1285	
DAC87	AD	ADDAC87	
	Burr-Brown	DAC851	
		DAC87	
	Datel	DACHZ	
	ILC-DDC	DAC87	
	Sipex	DAC335	
		DAC87	
DAC88	Adv Analog	DAC88	
MNADC80	Burr-Brown	ADC80	
MNADC84	Burr-Brown	ADC84	
MNADC85	Burr-Brown	ADC85	
		ADC85H	**(3473)**
MNADC87	Burr-Brown	ADC87	
MNDAC80	Burr-Brown	DAC80	
		DAC800	
MNDAC85	Burr-Brown	DAC85	
		DAC85H	
		DAC87H	
MNDAC87	Burr-Brown	DAC87	
		DAC87H	
MN0300A	AD	HTC0300	
	Datel	SHM4860	
MN2020	Sipex	HS2020	
MN3000	Sipex	DAC337	
MN3001	Sipex	DAC337	
MN3002	Sipex	DAC337	
MN3003	Sipex	DAC337	
MN3004	Sipex	DAC337	
MN3005	Sipex	DAC337	
MN3006	Sipex	DAC337	
MN3007	Sipex	DAC337	
MN3020	Sipex	HS3020	
MN3210	Burr-Brown	DAC71	
MN3290	AD	ADDAC71	
	Burr-Brown	DAC700	
		DAC71	
		DAC72	
	Datel	DAC71	
		DAC72	
MN3290I	Burr-Brown	DAC700	
MN3290V	Burr-Brown	DAC701	
MN3292I	Burr-Brown	DAC702	
MN3292V	Burr-Brown	DAC703	
MN3300	Burr-Brown	DAC700	
		DAC703	
		DAC71	
		DAC72	
MN3310	Burr-Brown	DAC700	
		DAC703	
		DAC71	
		DAC72	
MN3348	Sipex	DAC349	
MN3349	Sipex	DAC349	
		DAC9349	
MN346	Adv Analog	SH346	
	AD	AD346	
	Sipex	HS346	
MN347	Adv Analog	SH347	
MN370	AD	AD370	
	Sipex	DAC347	
MN371	AD	AD371	
MN374	**AD**	**AD389**	**(3532)**
	Burr-Brown	**SHC76**	**(3471)**
	Sipex	HS9714	
		HS9716	
MN376	Adv Analog	SH376	
	AD	HTC0300A	
	Burr-Brown	**SHC804**	**(3471)**
	Datel	SHM45M	
		SHM4860	
	ILC-DDC	THA05203	
	Sipex	HS9720	
		SHM4860	
	TeledyneP	TP4860	
MN379	Burr-Brown	SHC600	
MN3850	Burr-Brown	DAC85	
		DAC85H	
		DAC87H	
	Sipex	HS3860	
MN3860	AD	AD3860	
	ILC-DDC	DACSL	
	Sipex	HS3860	
MN4000	AD	HTS0010	
		HTS0025	
MN5065	GEC Plessey	ZN509	
MN5066	GEC Plessey	ZN509	
MN5100	GEC Plessey	ZN509	
	TI	ADC0820	
		TLC0820	
MN5101	Datel	ADC5101	
	GEC Plessey	ZN509	
	ILC-DDC	DDC5101	
	TI	ADC0820	
		TLC0820	
MN5120	GEC Plessey	ZN509	
	TI	ADC0820	
		TLC0820	
MN5130	GEC Plessey	ZN509	
	TI	ADC0820	
		TLC0820	
MN5131	Sipex	HS5131	
MN5140	GEC Plessey	ZN509	
	TI	ADC0820	
		TLC0820	
MN5150	GEC Plessey	ZN509	
	Sipex	HS5150	
MN5200	AD	AD5200	
MN5202	AD	AD5202	
MN5203	AD	AD5203	
MN5204	AD	AD5204	
MN5205	AD	AD5205	
MN5206	AD	AD5206	
MN5210	Adv Analog	ADC5210	
	AD	AD5210	
	Datel	ADC5210	
	ILC-DDC	DDC5210	
	Sipex	HS5210	
	TeledyneP	TP5210	
MN5211	AD	AD5211	
	Datel	ADC5211	
	ILC-DDC	DDC5211	
	Sipex	HS5211	
MN5212	Adv Analog	ADC5212	
	AD	AD5212	
	Datel	ADC5212	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MN5212			(Cont'd)
	ILC-DDC	DDC5212	
	Sipex	HS5212	
MN5213	AD	AD5213	
	Datel	ADC5213	
	Sipex	HS5213	
MN5214	Datel	ADC5214	
	Sipex	HS5214	
	TeledyneP	TP5214	
MN5215	AD	AD5215	
	Datel	ADC5215	
	Sipex	HS5215	
MN5216	Datel	ADC5216	
	ILC-DDC	MN5216	
	Sipex	HS5216	
♦ MN5240	AD	AD5240	
	ILC-DDC	DDC5240	
	TeledyneP	TP4189	
MN5245	Adv Analog	ADC5245	
MN5246	**Burr-Brown**	**ADC601**	**(3472)**
♦ MN5246	Adv Analog	ADC5246	
MN5248	**Burr-Brown**	**ADC601**	**(3472)**
MN5250	Sipex	HS5250	
MN5251	Sipex	HS5251	
MN5252	Sipex	HS5252	
MN5253	Sipex	HS5253	
MN5280	Burr-Brown	ADC71	
MN5282	Burr-Brown	ADC71	
MN541	GEC Plessey	SL541	
♦ MN5610	Adv Analog	ADC5610	
MN574	Burr-Brown	ADC574	
	Sipex	HS574	
MN574A	**Adv Analog**	**ADC574A**	**(3473)**
	AD	**AD574A**	**(3510)**
	Burr-Brown	ADC574A	
	Datel	ADC574Z	
	Harris	HI574A	
	MicroPwr	MP574A	
	Signal Proc	HADC574A	
	Sipex	HS574A	
	TeledyneP	TP574A	
MN5815	GEC Plessey	ZN509	
MN5825	Datel	ADC5825	
		ADC825	
	GEC Plessey	ZN509	
♦ MN5900	Siemens	SDA8200	
♦ MN5901	Siemens	SDA8010	
MN5902	Datel	ADC208	
♦ MN5903	AD	AD9000	
MN5904	Siemens	SDA5200	
MN5905	Siemens	SDA5200	
MN5908	Datel	ADC208	
MN6227	Sipex	HS9474	
MN674	AD	AD674A	
	Burr-Brown	ADC674A	
	Harris	HI674A	
	Signal Proc	HADC674A	
	Sipex	SP674	
		SP674A	
MN674A	AD	AD674A	
	Burr-Brown	ADC674A	
	Datel	ADC674Z	
	Harris	HI574A	
		HI674A	
	Sipex	SP674A	
MN7120	GEC Plessey	ZN437	
MN7145	Sipex	HS9410	
MN7146	Sipex	HS9411	
MN7147	Sipex	HS9412	
MN7150	Burr-Brown	SDM873	
	Datel	HDAS8116	
	Sipex	HS9403	
MN7150-16	Datel	HDAS16	
		MN7150-16	
MN7150-8	Datel	HDAS-8	
MN77A	Harris	HI774	
MN774	AD	AD774	
	Burr-Brown	ADC774	
	Harris	HI774	

Micro Power Systems

Manufacturer Device	Replacement Source	Device	IC Master Page
AD810	AD	MAT01	
AD811	AD	MAT01	
AD812	AD	MAT01	
AD818	AD	MAT01	
MPOP01	AD	OP01	
MPOP02	AD	OP02	
MPOP04	AD	OP04	
MPOP05	AD	OP05	
MPOP07	AD	OP07	
	Lin Int Sys	LSOP07	
	National	LM607	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MPOP08	AD	OP08	
MPOP09	AD	OP09	
MPOP10	AD	OP10	
MPOP11	AD	OP11	
MPOP12	AD	OP12	
MPOP14	AD	OP14	
MPOP207	AD	OP227	
MPOP227	AD	OP227	
MPOP27	AD	OP27	
	Lin Int Sys	LSOP27	
MPOP37	Lin Int Sys	LSOP37	
MPO76	Harris	CA3300	
MPREF01	**AD**	**REF01**	**(353**
MPREF02	AD	REF02	
MPREF05	AD	REF05	
MPREF10	AD	REF10	
MPS7574	GEC Plessey	ZN448	
		ZN449	
MPT01	AD	MAT01	
MPT02	AD	MAT02	
MP0820	AD	ADC09820	
		AD7820	
	Maxim	AD7820	
	National	ADC0820	
	TI	TLC0820	
MP108	AD	PM108	
	National	LM108	
MP1208	National	DAC1208	
MP1209	National	DAC1209	
MP1210	National	DAC1210	
MP1230	National	DAC1230	
MP1231	National	DAC1231	
MP1232	National	DAC1232	
MP155	AD	OP15	
		PM155	
	National	LF155	
MP156	AD	OP16	
		PM156	
	National	LF156	
MP157	AD	OP17	
		PM157	
	National	LF157	
MP200	Siliconix	DG200	
MP201	Siliconix	DG411	
	TeledyneC	CDG201	
MP208	National	LM208	
MP301	Lin Int Sys	LS301	
MP302	Lin Int Sys	LS302	
	Siliconix	DG302	
MP303	Lin Int Sys	LS303	
	Siliconix	DG303	
MP308	AD	PM308	
	National	LM308	
MP310	AD	MAT01	
	Lin Int Sys	LS310	
MP311	AD	MAT01	
	Lin Int Sys	LS311	
MP312	Lin Int Sys	LS312	
MP313	AD	MAT01	
	Lin Int Sys	LS313	
MP318	AD	MAT01	
	Lin Int Sys	LS318	
MP3306	**Harris**	**CA3306**	**(363**
MP350	**AD**	**MAT03**	**(354**
	Lin Int Sys	LS350	
MP351	**AD**	**MAT03**	**(354**
	Lin Int Sys	LS351	
MP352	Lin Int Sys	LS352	
MP355	AD	OP15	
		PM355	
	National	LF355	
MP356	AD	OP16	
		PM356	
	National	LF356	
MP357	National	LF357	
MP358	**AD**	**MAT03**	**(354**
	Lin Int Sys	LS358	
MP360	**AD**	**MAT03**	**(354**
		OP17	
	Lin Int Sys	LS360	
MP361	**AD**	**MAT03**	**(354**
	Lin Int Sys	LS351	
MP362	Lin Int Sys	LS352	
MP3954	Lin Int Sys	LS3954	
MP3955	Lin Int Sys	LS3955	
MP3956	Lin Int Sys	LS3956	
MP3958	Lin Int Sys	LS3958	
MP4136	AD	OP09	
MP5010	AD	AD580	
		AD589	
	Harris	ICL8069	
	Lin Int Sys	LS5010	
	LinearTech	LT1004	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

icro Power Systems (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MP5010			(Cont'd)
	Maxim	AD580	
	National	LM113	
		LM185	
		LM385	
MP5520	AD	DAC01	
	GEC Plessey	ZN436	
MP5531	Motorola	MC1404	
MP5532	Motorola	MC1404	
MP562	AD	PM562	
MP574	AD	ADC574	
		AD574	
	Burr-Brown	ADC574	
	Harris	HI1574	
		HI574	
	Maxim	AD574	
	National	ADC574	
	Signal Proc	HDAC574	
	Sipex	HS574	
MP574A	MicroNet	MN574A	
MP5905	Lin Int Sys	LS5905	
MP5906	Lin Int Sys	LS5906	
MP5907	Lin Int Sys	LS5907	
MP5908	Lin Int Sys	LS5908	
MP5909	Lin Int Sys	LS5909	
MP5911	Lin Int Sys	LS5911	
MP5912	Lin Int Sys	LS5912	
MP5912C	Lin Int Sys	LS5912C	
MP674	AD	ADC674	
		AD674	
	Harris	HI1674	
MP7138	TI	ICL7135	
		TLC7135	
		TL500	
		TL501	
		TL503	
MP7226	AD	AD7226	
		PM7226	
	Maxim	MX7226	
MP7228	**AD**	**AD7228**	**(3538)**
	Maxim	MX7228	
MP7501	Lin Int Sys	LS508A	
	Siliconix	DG501	
	Unitrode	PIC7501	
MP7502	Unitrode	PIC7502	
MP7503	Lin Int Sys	LS508A	
	Siliconix	DG503	
	Unitrode	PIC7503	
MP7506	Burr-Brown	HI506A	
		MPC16	
		MPC506	
	Siliconix	DG506	
MP7507	Burr-Brown	HI507A	
		MPC507	
		MPC8	
	Siliconix	DG507	
MP7508	Burr-Brown	HI508A	
		MPC508	
		MPC8	
	Lin Int Sys	LS508A	
	Siliconix	DG508	
MP7509	Burr-Brown	HI509A	
		MPC4	
		MPC509	
	Siliconix	DG509	
MP7510	AD	SW7510	
	Unitrode	PIC7510	
MP7511	AD	SW7511	
	Unitrode	PIC7511	
MP7512	Unitrode	PIC7512	
MP7520	AD	AD7520	
	Harris	AD7520	
	Maxim	AD7520	
	TI	TLC7520	
	Unitrode	PIC7520	
MP7521	AD	AD7521	
	Harris	AD7521	
	Maxim	AD7521	
MP7522	AD	AD7522	
	Maxim	AD7522	
	Unitrode	PIC7522	
MP7523	AD	AD7523	
	GEC Plessey	ZN429	
	Harris	AD7523	
	Maxim	AD7523	
	Unitrode	PIC7523	
MP7524	AD	AD7524	
		PM7524	
	GEC Plessey	ZN428	
		ZN558	
MP7524			(Cont'd)
	Maxim	AD7524	
		MX7524	
	TI	TLC7524	
MP7528	AD	AD7528	
		PM7528	
	Burr-Brown	DAC7528	
	Maxim	AD7528	
		MX7528	
	Sipex	HS7528	
	TI	TLC7528	
MP7529A	**AD**	**AD7628**	**(3517)**
MP7530	AD	AD7530	
	Maxim	AD7530	
	Unitrode	PIC7530	
MP7531	AD	AD7531	
		PM7541	
	Burr-Brown	DAC7541	
	Maxim	AD7531	
	Unitrode	PIC7531	
MP7533	AD	AD7533	
		PM7533	
	Harris	AD7533	
	Maxim	AD7533	
		MX7533	
	National	DAC1020	
		DAC1021	
		DAC1022	
	TI	TLC7533	
	Unitrode	PIC7533	
MP7541	AD	AD7541	
		PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7541	
	Maxim	AD7541	
	National	DAC1221	
		DAC1222	
		DAC7541	
	Signal Proc	HDAC7541	
	Sipex	HS7541	
MP7541A	Maxim	MX7541A	
MP7542	AD	AD7542	
		PM7542	
	Burr-Brown	**DAC7545**	**(3469)**
	Maxim	AD7542	
		MX7542	
	Signal Proc	HDAC7542	
		HDAC7542A	
	Sipex	HS7542	
MP7543	AD	AD7543	
		PM7543	
	Maxim	AD7543	
	Signal Proc	HDAC7543	
		HDAC7543A	
	Sipex	HS7543	
MP7545	AD	AD7545	
		PM7545	
	Burr-Brown	DAC7541	
	Harris	AD7545	
	Maxim	AD7545	
	National	DAC7545	
	Signal Proc	HDAC7545	
	Sipex	HS7545	
MP7570	GEC Plessey	ZN432	
		ZN503	
MP7574	AD	ADC908	
		AD7574	
		PM7574	
	Maxim	AD7574	
		MAX160	
		MX7574	
	TI	ADC0804	
MP7581	AD	AD7581	
	GEC Plessey	ZN437	
	Maxim	MAX161	
		MX7581	
MP7614	Sipex	HS3140	
MP7621	AD	PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7541	
MP7622	**Burr-Brown**	**DAC7545**	**(3469)**
	Sipex	HS3120	
MP7623	AD	AD7521	
		AD7531	
		PM7541	
	Burr-Brown	DAC7541	
	Maxim	MX7521	
		MX7531	
	National	DAC1218	
		DAC1219	
		DAC1220	
		DAC1221	
	Sipex	HS7541	
MP7626	Sipex	DAC9331	
		HS9331	
		SP9316	
MP7628	AD	DAC8408	
		PM7628	
	TI	TLC628	
		TLC7628	
MP763	National	DAC1020	
		DAC1021	
		DAC1022	
MP7633	AD	AD7250	
		AD7530	
	Maxim	MX7520	
		MX7530	
	National	DAC1020	
		DAC1021	
		DAC1022	
	Unitrode	PIC7533	
MP7645	AD	PM7645	
MP7680	Sipex	HS7584	
MP7682	GEC Plessey	ZN440	
		ZN441	
	Harris	CA3300	
		CA3306	**(3639)**
		HI5701	
MP7683	GEC Plessey	ZN439	
MP7684	GEC Plessey	ZN439	
	Harris	HI5700	
MP7686	**Harris**	**CA3306**	**(3639)**
		HI5701	
MP774	AD	ADC774	
		AD774	
	Harris	HI1774	
MP830	Lin Int Sys	LS830	
MP831	Lin Int Sys	LS831	
MP832	Lin Int Sys	LS832	
MP833	Lin Int Sys	LS833	
MP840	Lin Int Sys	LS840	
MP841	Lin Int Sys	LS841	
MP842	Lin Int Sys	LS842	
MP843	Lin Int Sys	LS843	
MP844	Lin Int Sys	LS844	
MP845	Lin Int Sys	LS845	
MP8750	Harris	HI5700	
MP8785	Sony	CXD1175	
	TRWLSI	TMC1175	
MP8785A	**Harris**	**HI1175**	**(3639)**
		HI1176	**(3639)**
OP37	AD	OP37	
REF10	Burr-Brown	REF10	
2N3954A	Lin Int Sys	LS3954A	

Micro-Rel

Manufacturer Device	Replacement Source	Device	IC Master Page
MR3232	GEC Plessey	CT3232	
MR63105	GEC Plessey	CT1487	
MR63125	GEC Plessey	CT1487	

Microchip Technology Inc.

Manufacturer Device	Replacement Source	Device	IC Master Page
AY31013	SMC	COM8017	
AY500	GEC Plessey	MV500	
AY53600	SMC	KR9600	
		KR9601	
		KR9602	
AY58116	SMC	COM8116	
		COM8136	
AY58126	SMC	COM8126	
		COM8146	
AY58136	SMC	COM8116	
		COM8136	
AY59480	GEC Plessey	MV5089	
DSP320C10	TI	SMJ320C10	
DSP32010	TI	SMJ32010	
ER5911	Catalyst Semi	CAT59C11	
	EXEL	XL93C46	
		XL93LC46	
	OKI	MSM16911	
ER5912	**Catalyst Semi**	**CAT35C102**	**(3565)**
		CAT35C202	
	OKI	MSM16912	
ER59256	Samsung	KM93C07	
PCD8582	Philips	PCF8582	
PCD8582I	Philips	PCF8582	
PC28C04	EXEL	XL2804	
RO9256	Waferscale	WS27C256	
24C04	Ramtron	FM24C04	
♦ 24C04	Xicor	X2404	
27C1024	Krueger	27C210	
	Waferscale	WS27C010	
27C128	AMD	AM27128	
	ATMEL	AT27C128	
	Intel	MD27128	
	Krueger	27C128-200	
		27C128-250	
	National	NMC27C128	
	SEEQ	DM27128	
	TI	SMJ27C128	
		SMJ27128	
27C128-15BXA			
	TI	SMJ27C128-15	
27C128-17BXA			
	TI	SMJ27C128-17	
27C128-20BXA			
	TI	SMJ27C128-20	
27C128-25BXA			
	TI	SMJ27C128-25	
27C256	AMD	AM27256	
	ATMEL	AT27C256	
	Intel	MD27256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	National	NMC27C256	
	SEEQ	DM27C256	
	TI	SMJ27C256	
		TMS27C256	
		TMS27PC256	
	Waferscale	WS27C256	
27C256-15BXA			
	TI	SMJ27C256-15	
27C512	AMD	AM27512	
	ATMEL	AT27C512	
	Intel	MD27512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	National	NMC27C512	
	TI	SMJ27C512	
	Waferscale	WS27C512	
27C512-20BXA			
	TI	SMJ27C512-20	
27C512-25BXA			
	TI	SMJ27C512-25	
27C64	AMD	AM2764	
	Intel	MD27C64	
		MD2764	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
	SEEQ	DM27641	
	TI	SMJ2764	
27HC1616	TI	TMS27C210A	
		TMS27PC210A	
27HC256	Cypress	CY7C271	
	TI	TMS27C128	
		TMS27PC128	
27HC291	Cypress	CY7C274	
		CY7C291	
		CY7C291A	
	TI	SMJ27C291	
27HC292	Cypress	CY7C292	
27HC64	ATMEL	AT27HC64	
	Cypress	CY7C266	
	TI	SMJ27C49	
	Waferscale	WS57C64	
27HC641	AMD	AM27C49	
		AM27S46	
		AM27S49	
	ATMEL	AT27HC641	
	Cypress	CY7C261	
		CY7C264	
	Harris	HM76641	
	Philips	82HS641	
	TI	SMJ27C49	
	Waferscale	WS57C49	
27256	Waferscale	WS27C256	
27256-17BXA	TI	SMJ27C256-17	
27256-20BXA	TI	SMJ27C256-20	
28CP256	NEC	µPD28C256	
28CP64	National	NMC98C64	
	SEEQ	28C64	
28C04	ATMEL	AT28C04	
	EXEL	XL2816	
	NEC	µPD28C04	
	SEEQ	DM28C04	
	Xicor	X2804	
28C04A	Ramtron	FM1208S	
28C16	ATMEL	AT28C16	
	EXEL	XL28C16	
	Intel	MD2816	
	National	NMC9816	
	Xicor	X2816	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Microchip Technology Inc. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
28C16A	Ramtron	FM1408S	
28C17	AMD	AM2817	
	ATMEL	AT28C17	
	Intel	MD2817	
	National	NMC8917	
28C191	SEEQ	36C16	
28C256	NEC	µPD28C256	
	SEEQ	28C256	
	Xicor	X28C256	
28C291	SEEQ	36C16	
28C64	AMD	AM9864	
	ATMEL	AT28C64	
	EXEL	XL28C64	
	NEC	µPD28C64	
	Ramtron	FM1608S	
	SEEQ	DM28C641	
		28C65	
	Xicor	X28C64	
		X2864	
28HC16	SEEQ	36C16	
59C11	EXEL	XL93C46	
		XL93LC46	
93C06	EXEL	XL93LC06	
	Samsung	KM93C06	
93C46	EXEL	XL93C46	
		XL93LC06	
		XL93LC46	

Micron Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
MC5C2561	Cypress	CY7C197	
MT12D136	Fujitsu	MB85345	
	Hitachi	HB56D136	
	Motorola	MCM36100	
	NEC	MC421000A36	
	OKI	MSC2360	
	Samsung	KMM5361000	
	Toshiba	THM361020	
MT1259	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	
◆ MT1259	Fujitsu	MB81C1259	
	GoldStar	GM1356	
	Mitsubishi	M5M4256	
	Motorola	MCM6256	
	NEC	µPD41256	
	OKI	MSM41256	
	Samsung	KM41256	
MT16D232	Fujitsu	MB85342	
	Hitachi	HM56D232	
	Motorola	MCM32200	
	OKI	MSC2362	
	Samsung	KMM5322000	
	Toshiba	THM322020	
MT2D18	Fujitsu	MB85303	
	Hitachi	HB56G18	
	Mitsubishi	MH1M08	
	Motorola	MCM81430	
	OKI	MSC2358	
	Samsung	KMM581000	
	TI	TM124GU8A	
	Toshiba	THM81070	
MT24D236	Fujitsu	MB85347	
	Hitachi	HB56D236	
	Mitsubishi	MH2M36	
	Motorola	MCM36200	
	OKI	MSC2356	
	Samsung	KMM5362000	
	Siemens	HYM362020	
	TI	TM248NBK36	
	Toshiba	THM362020	
MT3D19	Fujitsu	MB85305	
	Hitachi	HB56G19	
	Mitsubishi	MH1M09	
	Motorola	MCM91430	
	OKI	MSC2359	
	Samsung	KMM591000	
	TI	TM124EAD9	
	Toshiba	THM91070	
MT4C1004	Fujitsu	MB814100	
	GoldStar	GM71C4100	
	Hitachi	HM514100	
	Hyundai	HY514100	
	Mitsubishi	M5M44100	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MT4C1004	Motorola		(Cont'd)
		MCM54100	
		MCM54100A	
	NEC	µPD424100	
		µPD4254100	
	OKI	MSM514100	
	Samsung	KM41C4000	
		KM41C4002	
	Siemens	HYB514100	
	TI	SMJ44100	
		TMS44100	
		TMS441000	
	Toshiba	TC514100	
MT4C1005	Motorola	MCM54101	
		MCM54101A	
	TI	TMS44100	
◆ MT4C1005	Fujitsu	MB814101	
	Mitsubishi	M5M44101	
	Motorola	MCM514101	
	NEC	µPD424101	
	Toshiba	TC514101	
MT4C1006	Fujitsu	MB81410Z	
	Mitsubishi	M5M44102	
	Motorola	MCM514102	
		MCM54102	
		MCM54102A	
	NEC	µPD424102	
	OKI	MSM514102	
	TI	TMS44100	
		TMS441002	
	Toshiba	TC514102	
MT4C1024	Fujitsu	MB81C1000	
	GoldStar	GM71C1000	
	Hitachi	HM511000	
	Hyundai	HY51C1000	
		HY531000	
	Krueger	511000-100	
		511000-70	
		511000-80	
	Mitsubishi	M5M41000	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
		MCM511000A	
	NEC	µPD421000	
	OKI	MSM511000	
	Samsung	KM41C1000	
	Siemens	HYB511000	
		HYB514256	
	TI	SMJ4C1024	
		TMS4C1024	
	Toshiba	TC511000	
		TC511000B	
MT4C1024C-10/883C			
	TI	SMJ4C1024-10	
MT4C1024C-12/883C			
	TI	SMJ4C1024-12	
MT4C1024C-15/883C			
	TI	SMJ4C1024-15	
MT4C1025	Motorola	MCM511001	
		MCM511001A	
	TI	TMS4C1024	
		TMS4C1025	
	Toshiba	TC511001	
		TC511001B	
◆ MT4C1025	Fujitsu	MB81C1001	
	Hitachi	HM511001	
	Hyundai	HY51C1001	
	Mitsubishi	M5M4C1001	
	Motorola	MCM511001	
	NEC	µPD421001	
	OKI	MSM511001	
	Samsung	KM41C1001	
	Siemens	HYB511001	
	TI	TMS4C1025	
	Toshiba	TC511001	
MT4C1026	Fujitsu	MB81C1002	
	Hitachi	HM511002	
	Hyundai	HY51C1003	
	Mitsubishi	M5M41002	
	Motorola	MCM511002	
		MCM511002A	
	NEC	µPD421002	
	OKI	MSM511002	
	Samsung	KM41C1002	
	Siemens	HYB511002	
	TI	TMS4C1024	
		TMS4C1027	
	Toshiba	TC511002	
◆ MT4C1027	Hyundai	HY51C1000	
	Motorola	MCM51L1000	
	Siemens	HYB511000	
	Toshiba	TC511000	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MT4C16	OKI	MSM5116100	
MT4C16MX1	Fujitsu	MB8116100	
	Hitachi	HM5116100	
	Mitsubishi	M5M16100	
	Samsung	KM41C1600	
	Siemens	HYB5116100	
	TI	TMS416100	
	Toshiba	TC5116100	
MT4C1608	AT&T	ATT7C116	
MT4C16256	Hitachi	HM514260	
		HM514270	
	Mitsubishi	M5M44170	
		M5M44260	
	NEC	µPD4241610	
		µPD424260	
	Samsung	KM416C256	
	TI	TMS45165	
	Toshiba	TC5116102	
MT4C16257	GoldStar	GM71C4260	
	Hitachi	HM514160	
		HM514260	
	Mitsubishi	M5M44170	
		M5M44260	
	NEC	µPD4241610	
		µPD424260	
		µPD4254260	
	Samsung	KM416C256	
	TI	TMS45165	
	Toshiba	TC514260	
MT4C16260	Hitachi	HM514170	
	Mitsubishi	M5M44170	
	NEC	µPD424170	
	Toshiba	TC514256	
MT4C16270	Hitachi	HMS14161	
MT4C1664	Mosel-Vitelic	V53C664	
	TI	TMS44C260	
MT4C1665	Mosel-Vitelic	V53C665	
MT4C256	Mosel-Vitelic	V53C104	
		V53C104B	
MT4C4M4	OKI	MSM5116400	
	Samsung	KM44C4002	
		KM44C4100	
		KM44V16000	
	Toshiba	TC5116402	
		TC5117400	
MT4C4M4X1	Fujitsu	MB8116400	
	Hitachi	HM5116400	
	Mitsubishi	M5M16400	
	Motorola	MCM514100	
	NEC	µPD42160410	
	Samsung	KM44C4000	
	Siemens	HYB5116400	
	TI	TMS416400	
	Toshiba	TC5116400	
MT4C4001	Fujitsu	MB814400	
	GoldStar	GM71C4400	
	Hitachi	HM514400	
	Hyundai	HY514400	
	Mitsubishi	M5M44400	
	Mosel-Vitelic	V53C404	
	Motorola	MCM514400	
		MCM54400	
		MCM54400A	
	NEC	µPD424400	
	OKI	MSM514400	
	Samsung	KM41C1000	
		KM41V4000	
		KM44C1000	
	Siemens	HYB514400	
	TI	TMS44400	
		TMS444000	
		TMS44410	
	Toshiba	TC514400	
MT4C4001CN-10/883C			
	TI	SMJ44400-10	
MT4C4001CN-12/883C			
	TI	SMJ44400-12	
MT4C4001CN-8/883C			
	TI	SMJ44400-80	
MT4C4003	Fujitsu	MB814402	
	Mitsubishi	M5M44402	
	Motorola	MCM514402	
		MCM54402	
		MCM54402A	
	NEC	µPD424402	
	OKI	MSM5144002	
	Samsung	KM44C1002	
	Siemens	HYB5144002	
	TI	TMS44400	
		TMS444002	
		TMS44410	
	Toshiba	TC514402	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Mast
MT4C4004	Siemens	HYB514400	
	TI	TMS4460	
	Toshiba	TC514410	
MT4C4256	Fujitsu	MB81C4256	
	GoldStar	GM71C4256	
		GM71C7256	
	Hitachi	HM514256	
	Hyundai	HY51C4256	
		HY534256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	Mitsubishi	M5M44256	
	Motorola	MCM514256	
		MCM514256A	
	NEC	µPD424256	
	OKI	MSM514256	
	Samsung	KM41C256	
	Sharp	LH64256	
	Siemens	HYB514256	
	TI	SMJ44C250	
		SMJ44C256	
		TMS44C250	
		TMS44C251	
		TMS44C256	
	Toshiba	TC514256	
		TC514256B	
MT4C4256C-10/883C			
	TI	SMJ44C256-10	
MT4C4256C-12/883C			
	TI	SMJ44C256-12	
MT4C4256C-15/883C			
	TI	SMJ44C256-15	
MT4C4258	Fujitsu	MB81C4258	
	Hitachi	HM514258	
	Hyundai	HY51C4258	
	Mitsubishi	M5M44256	
	Motorola	MCM514256	
		MCM514258	
		MCM514258A	
	NEC	µPD424258	
	OKI	MSM514258	
	Samsung	KM41C258	
	Sharp	LH64258	
	Siemens	HYB514258	
	TI	TMS44C256	
		TMS44C257	
	Toshiba	TC514258	
		TC514258B	
MT4C4259	TI	TMS44C260	
◆ MT4C4260	Hyundai	HY51C4256	
	Motorola	MCM51L4256	
	Siemens	HYB514256	
	Toshiba	TC514256	
MT4C6408	AT&T	ATT7C185	
MT4C8512	GoldStar	GM71C4800	
	Hitachi	HM514800	
	Hyundai	HY52C4800	
	Mitsubishi	M5M44800	
	Motorola	MCM54800	
	NEC	µPD424800	
		µPD4254800	
	Samsung	KM48C512	
	Toshiba	TC514800	
MT4C8513	GoldStar	GM71C4800	
MT4LC4M4	Hitachi	HM51V6400	
MT4LC4001	NEC	µPD4254400	
MT4S12832	Cypress	CYM1836	
	EDI	EDI8F321Z8	
	IDT	IDT7MP4095	
	Motorola	MCM32128	
MT4001	TI	SMJ44400	
MT4067	Hyundai	HY53C464	
	Krueger	**41464-100**	**(366**
		41464-120	**(366**
		41464-150	**(366**
	Mosel-Vitelic	V53C464	
◆ MT4067	Fujitsu	MB81C4067	
	Hitachi	HM50464	
	Hyundai	HY53C464	
	Mitsubishi	M5M4464	
	Motorola	MCM41464	
	NEC	µPD41464	
	OKI	MSM4256	
	Samsung	KM41464	
	Sharp	LH2464	
	TI	TMS4C4256	
	Toshiba	TC514067	
MT42C4064	GoldStar	GM53C261	
		GM53C461	
	Krueger	4461-100	
		4461-120	
		4461-150	

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
Micron Semiconductor (Cont'd)			
MT42C4064			(Cont'd)
	Mosel-Vitelic	V53C261	
MT42C4255	Mosel-Vitelic	V52C4256	
MT42C4256	Hitachi	HM534251	
		HM534253	
	Mitsubishi	M5M442256	
	Mosel-Vitelic	V52C4258	
	NEC	μPD42273	
		μPD42274	
	OKI	MSM514252	
	Samsung	KM424C256	
		KM424C257	
	TI	SMJ44C251	
		SMJ44C251A	
		TMS44C251	
		TM524256	
	Toshiba	TC524258	
		TC524259	
		TC525256	
MT42C8127	Mosel-Vitelic	V52C8126	
MT42C8128	Hitachi	HM538121	
		HM538123	
	Mitsubishi	M5M482128	
	Mosel-Vitelic	V52C8128	
	NEC	μPD42275	
	Samsung	KM428C128	
	TI	TMS48C121	
	Toshiba	TC528126	
		TC528128	
MT42C8256	NEC	μPD482235	
	Toshiba	TC52867	
MT42C8257	Hitachi	HM538253	
	Mitsubishi	M5M4825256	
	NEC	μPD482234	
	Samsung	KM428C256	
	Toshiba	TC528257	
MT4264	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
MT5C1001	AT&T	ATT7C107	
	Cypress	CY7C107	
		CY7C107A	
	Fujitsu	MB82B001	
	Hitachi	HM621100	
	IDT	IDT71027	
	Mitsubishi	M5M51001	
	Motorola	MCM6226	
		MCM6227	
		MCM6227A	
		MCM6229	
	NEC	μPD431001	
	Samsung	KM611001	
MT5C1005	AT&T	ATT7C106	
	Cypress	CY7C106	
	Fujitsu	MB82B005	
	Hitachi	HM624256	
	IDT	IDT71028	
	Mitsubishi	M5M51004	
	Mosel-Vitelic	MS621002	
	Motorola	MCM6228	
		MCM6229	
		MCM6229A	
	NEC	μPD431004	
	Samsung	KM641001	
		KM641005	
	Sharp	LH521002	
	TI	TM62457	
	VLSI Tech	VT624256	
MT5C1008	AT&T	ATT7C109	
	Cypress	CY7C108	
		CY7C109	
	Hitachi	HM628128	
	IDT	IDT71024	
	Mosel-Vitelic	MS621008	
	Motorola	MCM6226	
		MCM6226A	
	Paradigm	PDM41024	
	Samsung	KM681001	
	Sharp	LH521007	
		LH521008	
	Sony	CXK581020	
MT5C1009	Sharp	LH521007	
		LH521008	
MT5C1189	Fujitsu	MB82009	
MT5C128K8	Fujitsu	MB82008	
	Motorola	MCM6726	
	Sony	CXK581120	
	Toshiba	TC55B8128	
MT5C1601	AT&T	ATT7C167	
	Cypress	CY7C167	
		CY7C167A	
			(Continued)
MT5C1601			(Cont'd)
	Fujitsu	MB81C67	
	Hitachi	HM6267	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	Mitsubishi	M5M21C67	
	NEC	μPD4311	
	SGS-Thomson	IMS1403	
		MK41H67	
MT5C1604	AT&T	ATT7C168	
	Cypress	CY7C168	
		CY7C168A	
		CY7C169	
	Fujitsu	MB81C68	
		MB81C69	
	Hitachi	HM6268	
	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	Mitsubishi	M5M21C68	
	Motorola	MCM6268	
	NEC	μPD4314	
	Performance	P4C168	
	Quality Semi	QS8768	
	SGS-Thomson	IMS1423	
		MK41H68	
	UMC	UM6168	
	VLSI Tech	VT20C68	
		VT20C69	
MT5C1605	AT&T	ATT7C170	
	Cypress	CY7C170	
		CY7C170A	
	IDT	IDT61970	
	LogicDev	L7C170	
	Motorola	MCM6270	
	Performance	P4C170	
	VLSI Tech	VT20C78	
		VT20C79	
MT5C1606	AT&T	ATT7C171	
	Cypress	CY7C171	
		CY7C171A	
	IDT	IDT716881	
	LogicDev	L7C171	
	Quality Semi	QS8761	
◆ MT5C1606	AT&T	ATT7C171	
	Cypress	CY7C171	
	IDT	IDT71681	
	Performance	P4C1681	
	VLSI Tech	VT20C71	
MT5C1607	AT&T	ATT7C172	
	Cypress	CY7C172	
		CY7C172A	
	IDT	IDT71682	
	LogicDev	L7C172	
	Quality Semi	QS8762	
◆ MT5C1607	AT&T	ATT7C171	
	Cypress	CY7C172	
	IDT	IDT71682	
	Performance	P4C1682	
	VLSI Tech	VT20C72	
MT5C1608	AT&T	ATT7C116	
	Cypress	CY7C128	
		CY7C128A	
	Hitachi	HM6716	
	IDT	IDT6116	
	LogicDev	L6116	
	Performance	P4C116	
	TI	TM6716	
	UMC	UM6116	
MT5C2516	Motorola	MCM62995	
		MCM62995A	
		MCM62996	
	Performance	P3C218	
		P4C218	
MT5C256K4	Motorola	MCM6729	
	Toshiba	TC55B4257	
MT5C2561	AT&T	ATT7C197	
	Cypress	CY7C197	
	Fujitsu	MB81C81	
	Hitachi	HM6207	
		HM6707	
	IDT	IDT71257	
	LogicDev	L7C197	
			(Continued)
MT5C2561			(Cont'd)
	Mitsubishi	M5M5257	
	Mosel-Vitelic	MS62251	
	Motorola	MCM6207	
	NEC	μPD43251	
		μPD46251	
	Paradigm	PDM41257	
	Performance	P4C1257	
	Samsung	KM61257	
	Sony	CXK51256	
	TI	TM6707	
MT5C2564	AT&T	ATT7C194	
	Cypress	CY7C194	
	Fujitsu	MB81C84	
	Hitachi	HM6208	
		HM6708	
	IDT	IDT71B258	
		IDT71258	
	LogicDev	L7C194	
	Mitsubishi	M5M5258	
	Mosel-Vitelic	MS62252	
		MS62252A	
	Motorola	MCM6208	
	NEC	μPD43254	
	Paradigm	PDM41258	
	Performance	P4C1258	
	Quality Semi	QS86440	
	Samsung	KM64257	
	Sharp	LH52252	
	Sony	CXK54256	
	TI	TMS6708	
	Toshiba	TC55B464	
		TC55464	
MT5C2565	AT&T	ATT7C195	
	Cypress	CY7C195	
		CY7C196	
	Hitachi	HM6709	
	IDT	IDT61B298	
		IDT61298	
	LogicDev	L7C195	
	Mitsubishi	M5M5259	
	Mosel-Vitelic	MS62253A	
	Motorola	MCM6209	
	Paradigm	PDM41298	
	Quality Semi	QS86446	
	Sharp	LH52253	
	Toshiba	TC55B465	
		TC55465	
MT5C2568	AT&T	ATT7C199	
	Cypress	CY7C198	
		CY7C199	
	Fujitsu	MB8298	
	Hitachi	HM62832	
	IDT	IDT71256	
	Krueger	62256-025	
		62256-030	
		62256-035	
	LogicDev	L7C199	
	Mitsubishi	M5M5278	
	Mosel-Vitelic	MS62256	
	Motorola	MCM6206	
	NEC	μPD43528	
	Paradigm	PDM41256	
	Performance	P4C1256	
	Quality Semi	QS83280	
	Samsung	KM68257	
	Sharp	LH52258	
	Sony	CXK58255	
		CXK58258	
	Toshiba	TC55B328	
		TC55328	
	VLSI Tech	VT62832	
MT5C2889	Cypress	CY7C188	
	IDT	IDT71259	
	Mitsubishi	M5M5279	
	Toshiba	TC55329	
MT5C512K8	Fujitsu	MB82208	
MT5C512K8B2	Paradigm	PDM41096	
MT5C5257	Mosel-Vitelic	MS62251A	
MT5C6401	AT&T	ATT7C187	
	Cypress	CY7C187	
		CY7C187A	
	Fujitsu	MB81C71	
	Hitachi	HM6287	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	LogicDev	L7C187	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	NEC	μPD4361	
			(Continued)
MT5C6401			(Cont'd)
	Performance	P4C187	
	Samsung	KM6165	
	SGS-Thomson	IMS1600	
	Sony	CXK5164	
	TI	TM6787	
	Toshiba	TC5561	
		TC5562	
MT5C6404	AT&T	ATT7C164	
	Cypress	CY7B164	
		CY7C164	
		CY7C164A	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
	IDT	IDT7188	
	LogicDev	L7C164	
	Mitsubishi	M5M5188	
	Motorola	MCM6288	
	NEC	μPD4362	
	Performance	P4C188	
	Quality Semi	QS8888	
	Samsung	KM6465	
	SGS-Thomson	IMS1620	
	Sony	CXK5464	
		CXK5466	
	TI	TM6788	
	Toshiba	TC55416	
	VLSI Tech	VT6288	
MT5C6405	AT&T	ATT7C166	
	Cypress	CY7B166	
		CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6789	
	IDT	IDT6198	
		IDT7198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	Mitsubishi	M5M5189	
	Mosel-Vitelic	MS6267A	
	Motorola	MCM6290	
	NEC	μPD4363	
	Performance	P4C198	
	Quality Semi	QS8886	
		QS8886A	
	SGS-Thomson	IMS1624	
	Sony	CXK5465	
		CXK5467	
	TI	TM6789	
	Toshiba	TC55417	
	VLSI Tech	VT6289	
MT5C6406	AT&T	ATT7C161	
	Cypress	CY7B161	
		CY7C161	
	IDT	IDT71981	
	LogicDev	L7C161	
	Quality Semi	QS8881	
◆ MT5C6406	AT&T	ATT7C161	
	Cypress	CY7C161	
	IDT	IDT71981	
	Performance	P4C1981	
MT5C6407	AT&T	ATT7C162	
	Cypress	CY7B162	
		CY7C162	
	IDT	IDT71982	
	LogicDev	L7C162	
	Quality Semi	QS8882	
◆ MT5C6407	AT&T	ATT7C162	
	Cypress	CY7C162	
	IDT	IDT71982	
	Performance	P4C1982	
MT5C6408	AT&T	ATT7C185	
	Cypress	CY7B185	
		CY7C185	
		CY7C185A	
	Fujitsu	MB81C78	
	IDT	IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	LogicDev	L7C185	
	Mitsubishi	M5M5178	
	Mosel-Vitelic	MS6264	
		MS6264A	
	Motorola	MCM6264	
	Performance	P4C164	
	Samsung	KM6865	
	Sony	CSK5866	
		CXK5863	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Micron Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MT5C6408			(Cont'd)
	Toshiba	TC55B88	
		TC5588	
	UMC	UM6164	
	VLSI Tech	VT20C8	
		VT20C9	
MT5LC2568	IDT	IDT713256	
	Motorola	MCM62V06	
MT52C4K9	AMD	AM7204	
	Cypress	CY7C433	
		CY7C433A	
	Dallas	DS2012	
	IDT	IDT7204	
	Mosel-Vitelic	MS7204	
	Quality Semi	QS8204	
	Sharp	LH5499	
MT52C8K9	AMD	AM7205	
	Cypress	CY7C460	
	Dallas	DS2013	
	IDT	IDT7205	
MT52C9005	AMD	AM7201	
	Cypress	CY7C420	
		CY7C421	
		CY7C421A	
	Dallas	DS2009	
	IDT	IDT7201	
	Mosel-Vitelic	MS7201A	
	Quality Semi	QS7201	
		QS8201	
	Samsung	KM75C01	
	SGS-Thomson		
		MK4501	
	Sharp	LH5496	
MT52C9007	Samsung	KM75C101	
MT52C9010	AMD	AM7202	
	Cypress	CY7C425	
		CY7C425A	
		CY78C424	
	Dallas	DS2010	
	IDT	IDT7202	
	Mosel-Vitelic	MS7202A	
	Quality Semi	QS7202	
		QS8202	
	Samsung	KM75C02	
	SGS-Thomson		
		MK4502	
	Sharp	LH5497	
MT52C9012	Samsung	KM75C102	
MT52C9020	AMD	AM7203	
	Cypress	CY7C428	
		CY7C429	
		CY7C429A	
	Dallas	DS2011	
	IDT	IDT7203	
	Mosel-Vitelic	MS7203A	
	Quality Semi	QS7203	
		QS8203	
	Samsung	KM75C03	
	SGS-Thomson		
		MK4503	
	Sharp	LH5498	
MT52C9022	Samsung	KM75C103	
MT53C1K18	IDT	IDT72225	
		IDT72235	
		IDT72245	
	Sharp	LH540225	
MT53C51218	IDT	IDT72215	
	Sharp	LH540215	
MT56C0816	AT&T	ATT7C183	
	Cypress	CY7C183	
	Hitachi	HM62168	
	Samsung	KM78C80	
	Sony	CXK7701	
	Toshiba	TC55187	
	UMC	UM61168	
MT56C0818	Hitachi	HM62188	
	Toshiba	TC55187	
MT56C1289	AT&T	ATT7C341	
	Motorola	MCM62490	
	Paradigm	PDM41039	
MT56C3816	AT&T	ATT7C184	
	Cypress	CY7C184	
MT56C3818	Toshiba	TC55188	
MT560816	Mosel-Vitelic	V63C328	
MT58C1289	AT&T	ATT7C341	
	Sony	CXK77910	
MT58C1616	Motorola	MCM62990	
		MCM62990A	
	Performance	P4C219	
MT8C16256	IDT	IDT7MB4066	
MT8C3216	IDT	IDT7MP4031	
MT8C32256	IDT	IDT7MP4045	
MT8C3264	IDT	IDT7MP4036	
MT8C36256	Motorola	MCM36256	
	TI	TM256BK36B	
	Toshiba	THM362500	
MT8C36512	Motorola	MCM36512	
	TI	TM512LBK36B	
		TM512LBK36C	
	Toshiba	THM365120	
MT8C8024	Motorola	MCM81000	
	NEC	MC421000A8	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
	Toshiba	THM81000	
MT8C8025	Motorola	MCM81001	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
MT8C8026	Motorola	MCM81002	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
MT8C8256	Motorola	MCM84256	
	Toshiba	THM82500	
MT8C9024	Motorola	MCM91000	
	NEC	MC421000A9	
	TI	TM024EAD9	
		TM124EAD9C	
	Toshiba	THM91000	
MT8C9025	Motorola	MCM91001	
	TI	TM024EAD9	
		TM124EAD9C	
MT8C9026	Motorola	MCM91002	
	TI	TM024EAD9	
		TM124EAD9C	
MT8C9256	Motorola	MCM94256	
	Toshiba	THM92500	
MT8C9259	TI	TM256GU9	
MT8D132	Fujitsu	MB85340	
	Hitachi	HB56D132	
	Motorola	MCM32100	
	OKI	MSC2361	
	Samsung	KMM5321000	
	TI	TM124BBK32	
	Toshiba	THM321000	
MT8D18	Fujitsu	MB85230	
	Hitachi	HB56A18	
	Mitsubishi	MH1M08	
	Motorola	MCM81000	
	NEC	MC421000A8	
	Samsung	KMM581000	
	TI	TM024GAD8	
	Toshiba	THM81000	
MT8D48	Fujitsu	MB85280	
	Hitachi	HB56A48	
	Mitsubishi	MH4M08	
	Motorola	MCM84000	
	NEC	MC424100A8	
	OKI	MSC2341	
	Samsung	KMM584000	
	TI	TM4100GBD8	
	Toshiba	THM84000	
MT8S1632	Cypress	CYM1821	
	Dense-Pac	DPS8M612	
	Fujitsu	MB85414	
	IDT	IDT7MP4301	
	Mosaic Semi	MS3216	
	Performance	PMC1632	
MT8S25632	Motorola	MCM32257	
MT8S6432	Cypress	CYM1831	
	EDI	EDI8F3265	
	IDT	IDT7MP4036	
	Mitsubishi	MH6432	
	Mosaic Semi	MS3264	
	Motorola	MCM3264	
MT8259	Mosel-Vitelic	V256J8	
MT85C1632	IDT	IDT8M612	
MT85C1664	IDT	IDT8M624	
MT85C3216	Cypress	CYM1821	
MT85C3264	Cypress	CYM1831	
MT85C8128	Cypress	CYM1420	
		CYM1423	
	IDT	IDT8M824	
MT9D19	Fujitsu	MB85235	
	Hitachi	HB56A19	
	Mitsubishi	MH1M09	
	Motorola	MCM91000	
	NEC	MC421000A9	
	OKI	MSC2312A	
	Samsung	KMM591000	
	Siemens	HYM91000	
MT9D19			(Cont'd)
	TI	TM024EAD9	
	Toshiba	THM91000	
MT9D49	Fujitsu	MB85285	
	Hitachi	HB56A49	
	Mitsubishi	MH4M09	
	Motorola	MCM94000	
	NEC	MC424100A9	
	OKI	MSC2340	
	Samsung	KMM59400	
	TI	TM4100EBD9	
	Toshiba	THM94000	
MT9259	Mosel-Vitelic	V256J9	
	TI	TM256GU9	
M5C6404	**Krueger**	**6288-25**	**(3663)**
		6288-35	
		6288-45	
M75C6405	Toshiba	TC55B417	
27C128	AMD	AM27C128	
27C256	AMD	AM27C256	
27C512	AMD	AM27C512	
27C64	AMD	AM27C64	

Micropac

Manufacturer Device	Replacement Source	Device	IC Master Page
3N243	TI	TIL120	
3N244	TI	TIL121	
4N22	TI	TIL02	
		4N22	
4N22A	TI	4N22A	
4N23A	TI	4N23A	
4N24	TI	TIL103	
		4N24	
4N24A	TI	4N24A	
4N47	TI	4N47	
4N48	TI	4N48	
4N49	TI	4N49	
4N55	HP	4N55	
6N134	HP	6N134	
6N140	HP	6N140	
66056-001	HP	HCPL2601	
		HCPL2611	
		6N137	
66056-002	HP	HCPL2630	
		HCPL2631	
		HCPL4661	
66058-001	HP	HCPL5700	
		HCPL5701	
		4N45	
		4N46	
		6N138	
		6N139	
66058-002	HP	HCPL5730	
66058-102	HP	HCPL5731	
66088-001	HP	6N135	
		6N136	
66088-002	HP	HCPL2530	
		HCPL2531	
8102801	HP	8102801	
8302401	HP	8302401	
8767901	HP	8767901	

Mitel Corp.

Manufacturer Device	Replacement Source	Device	IC Master Page
MD65SC51	CMD Micro	G65SC51	
MD65SC51B	American Micro	S65C51	
ML8024	GEC Plessey	SL8204	
MT3506	GEC Plessey	MV3506	
MT3507	GEC Plessey	MV3507	
MT4320	GEC Plessey	MV4320	
MT5087	GEC Plessey	MV5087	
MT5089	GEC Plessey	MV5089	
MT8812	Harris	CD22M3493	
MT8816	Harris	CD22M3494	
MT8865	GEC Plessey	MT8865	
		MV8865	
MT8870	CMD Micro	G8870	
	GEC Plessey	MV8870	
	Teltone	M8870	
MT8870-1	Teltone	M8870	
MT8870C	CMD Micro	G8870C	
MT8880	Teltone	M8880	
MT8880A	CMD Micro	G8880	
MT8888	Teltone	M8888	
MT8981	American Micro	S8981	
M27C256	Waferscale	WS27C256	
M27256	Waferscale	WS27C256	
M5L27256	Waferscale	WS27C256	

Mitsubishi Electronics

Manufacturer Device	Replacement Source	Device	IC Master Page
MGF8003	GEC Plessey	SP8703	
		SP8704	
MH1M08	MicronSemi	MT2D18	
		MT8D18	
	NEC	MC421000A8	
	Peps	PEP1MX8	
	Samsung	KMM581000	
MH1M08A	Motorola	MCM81000	
	OKI	MSC2313A	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
MH1M08AOJ	GoldStar	GMM781000S	
	Toshiba	THM81000	
MH1M08B0	Motorola	MCM81000	
MH1M08B1	Motorola	MCM81001	
MH1M08B2	Motorola	MCM81002	
MH1M09	MicronSemi	MT3D19	
		MT9D19	
	NEC	MC421000A9	
	Peps	PEP1MX9	
	Samsung	KMM591000	
MH1M09A	Motorola	MCM91000	
	OKI	MSC23109	
		MSC2312A	
	TI	TM024EAD9	
		TM124EAD9C	
MH1M09AOJ	Toshiba	THM91000	
MH1M09BOJ	GoldStar	GMM791000S	
MH1M09B0	Motorola	MCM91000	
MH1M09B1	Motorola	MCM91001	
MH1M09B2	Motorola	MCM91002	
MH1M32B	OKI	MSC23132	
MH1M32DJ	GoldStar	GMM7321000SG	
MH1M36	Toshiba	THM361020	
MH1M36B	OKI	MSC23136	
MH1M36DJ	GoldStar	GMM7361000SG	
♦ MH1M8AODJA			
	Peps	PEP1MX8LP	
♦ MH1M9AODJA			
	Peps	PEP1MX9LP	
MH2M32B	OKI	MSC23232	
MH2M32EJ	GoldStar	GMM322000SG	
MH2M36	MicronSemi	MT24D236	
MH2M36A	OKI	MSC23236	
MH2M36CJ	GoldStar	GMM7362000SG	
MH25608	Mosel-Vitelic	V256J8	
	Motorola	MCM84256	
	NEC	MC41256A8	
	Toshiba	THM82500	
MH25609	Mosel-Vitelic	V256J9	
	Motorola	MCM94256	
	NEC	MC41256A9	
	OKI	MSC2304	
	Toshiba	THM92500	
MH25636	NEC	MC424256A36	
MH25636A	OKI	MSC2320A	
MH25636AJ	Toshiba	THM362500	
MH25636BJ	GoldStar	GMM736256SG	
	Motorola	MCM36256	
MH4M08	MicronSemi	MT8D48	
	Toshiba	THM84000	
MH4M09	MicronSemi	MT9D49	
	Toshiba	THM94000	
MH4M09A	OKI	MSC23409	
MH4M09AODJ			
	GoldStar	GMM794000S	
MH4M090J	Motorola	MCM94000	
MH408A	OKI	MSC23408	
MH51236	NEC	MC424512A36	
MH51236A	OKI	MSC2321A	
MH51236AJ	Toshiba	THM365120	
MH51236BJ	GoldStar	GMM736512SG	
	Motorola	MCM36512	
MH6432	MicronSemi	MT8S6432	
MSM4170	Toshiba	TC514170B	
MSM4260	Toshiba	TC514260B	
MT5C2568	Motorola	MCM6206	
M2064	Allegro Micro	ULN2064	
M2065	Allegro Micro	ULN2065	
M2580	Allegro Micro	UDN2580	
M27C512	Waferscale	WS27C128	
M2981	Allegro Micro	UDN2981	
M2982	Allegro Micro	UDN2982	
M2983	Allegro Micro	UDN2983	

(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

itsubishi Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M2984	Allegro Micro	UDN2984	
M37450	Hitachi	HD647180	
M5K4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
M5K4164A	OKI	MSM3764A	
M5L2114	**Krueger**	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
M5L27C102	AMD	AM27C1024	
M5L27C128	Waferscale	WS27C128	
M5L27128	OKI	MSM27128	
	TI	TMS27C128	
		TMS27PC128	
M5L2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
M5L27256	OKI	MSM27256	
	TI	TMS27C256	
		TMS27PC256	
	Waferscale	WS27C256	
M5L27512	OKI	MSM27512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
M5L2764	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	OKI	MSM2764	
M5L8039	Krueger	8039	
M5L8080A	**Lansdale**	**IL8080A**	**(3664)**
M5L8085A	Krueger	8085A	
	OKI	MSM80C85A	
M5L8086	OKI	MSM80C86A	
M5L8088	OKI	MSM80C88A	
M5L8155	OKI	MSM81C55	
M5L8156	OKI	MSM81C56	
M5L8212	OKI	MSM82C12	
M5L8212	**Lansdale**	**IL8212**	**(3664)**
M5L8216	**Lansdale**	**IL8216**	**(3664)**
M5L8224	**Lansdale**	**IL8224**	**(3664)**
M5L8226	**Lansdale**	**IL8226**	**(3664)**
M5L8228	**Lansdale**	**IL8228**	**(3664)**
M5L8251	Krueger	8251	
	OKI	MSM82C51A	
M5L8253	Krueger	8253	
M5L8253A	OKI	MSM82C53	
M5L8255	Krueger	8255	
M5L8255A	Newbridge	CA82C55A	
M5L8257	Krueger	8257	
	OKI	MSM82C37	
M5L8259A	Krueger	8259	
	Newbridge	CA82C59A	
	OKI	MSM82C59A	
M5L8284	OKI	MSM82C84A	
M5L8284A	Newbridge	CA82C84A	
M5L8288	OKI	MSM82C88	
M5M1006	Toshiba	TC551001	
M5M16100	MicronSemi	MT4C16MX1	
M5M16400	MicronSemi	MT4C4M4X1	
M5M178	Mosel-Vitelic	MS6264A	
	Motorola	MCM6264	
M5M179	Motorola	MCM6265	
M5M21C67	AT&T	ATT7C167	
	Cypress	CY7C167	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	SGS-Thomson	IMS1403	
	Sharp	LH5167	
M5M21C68	AT&T	ATT7C168	
	Cypress	CY7C168	
	IDT	IDT6168	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	SGS-Thomson	IMS1423	
		MK41H68	
M5M2167	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
M5M2168	Krueger	2168-20	
		2168-25	
M5M2168	Krueger		(Cont'd)
		2168-35	
		2168-45	
		2168-55	
M5M23C100	GoldStar	GM231000	
	OKI	MSM531000A	
	Samsung	KM23C1000	
	UMC	UM23C1024	
M5M23C400	GoldStar	GM23C4100	
	Panasonic	MN234000	
	Samsung	KM23C4100	
	Toshiba	TC534200	
	UMC	UM23C4001	
M5M23C400A	OKI	MSM534002A	
M5M23C401	GoldStar	GM23C4000	
	Panasonic	MN234001	
	Samsung	KM23C4000	
M5M23C401A	OKI	MSM534001A	
M5M23C800	Toshiba	TC538200	
M5M231000	Samsung	KM23C1000	
M5M231001	Samsung	KM23C1001	
M5M23128	OKI	MSM38128	
	Panasonic	MN23128	
	UMC	UM23C128	
M5M231600	Toshiba	TC5316200	
M5M23256	OKI	MSM38256	
	Panasonic	MN23257	
	UMC	UM23C256	
M5M2364	OKI	MSM3864	
	Panasonic	MN2364	
	UMC	UM23C64	
M5M23800	OKI	MSM538002B	
M5M23801	OKI	MSM538001B	
M5M255	Sony	CXK58257	
M5M27C100	AMD	AM27C100	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC541001	
		TC571001	
M5M27C101	AMD	AM27C010	
	Krueger	27C010	
	OKI	MSM271000	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC541000	
		TC571000	
M5M27C102	OKI	MSM27C1024	
		MSM271024	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC57H1024	
		TC571024	
M5M27C128	Krueger	27C128-200	
		27C128-250	
	TI	TMS27C128	
		TMS27PC128	
M5M27C201	AMD	AM27C020	
	OKI	MSM27C2000	
	TI	TMS27C020	
M5M27C202	AMD	AM27C2048	
	OKI	MSM27C2048	
	TI	TMS27C020	
M5M27C256	AMD	AM27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	OKI	MSM27C256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
		TC57256	
M5M27C401	AMD	AM27C040	
	Toshiba	TC574000	
M5M27C402	AMD	AM27C4096	
	TI	TMS27C040	
		TMS27PC040	
M5M27C512	AMD	AM27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	Toshiba	TC54512	
M5M27C512A	Toshiba	TC27512	
		TC57512	
M5M27102	Catalyst Semi	CAT27C210	
M5M272112	Cypress	CY7C286	
M5M27256	Catalyst Semi	CAT27256	
	Cypress	CY7C274	
	Krueger	**27256-200**	**(3663)**
M5M27256	**Krueger**		**(Cont'd)**
		27256-250	**(3663)**
		27256-300	**(3663)**
M5M2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
M5M27512	Catalyst Semi	CAT27512	
	Krueger	**27512-200**	**(3663)**
		27512-250	**(3663)**
M5M28C64	NEC	µPD28C64	
	OKI	MSM28C64	
M5M28F101	Intel	28F010	
	OKI	MSM28F101	
M5M4C1000	Krueger	511000-100	
		511000-70	
		511000-80	
	NEC	µPD421000	
	OKI	MSM511000B	
	Panasonic	MN41C1000	
	Siemens	HYB511000	
	TI	TMS4C1024	
M5M4C1000B	GoldStar	GM71C1000	
M5M4C10003	Hyundai	HY531000	
M5M4C1001	Motorola	MCM511001A	
	NEC	µPD421001	
	OKI	MSM511001B	
	TI	TMS4C1025	
M5M4C1002	Motorola	MCM511002A	
	NEC	µPD421002	
	OKI	MSM511002B	
	Panasonic	MN41C1002	
	TI	TMS4C1027	
M5M4C256	NEC	µPD424256	
M5M4C264	GoldStar	GM53C261	
		GM53C461	
	Krueger	4461-100	
		4461-120	
		4461-150	
	Mosel-Vitelic	V53C261	
	Panasonic	MN47464	
	Samsung	KM424C64	
M5M41000	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mosel-Vitelic	V53C100	
	Motorola	MCM511000	
	Panasonic	MN411000	
M5M41000A	OKI	MSM511000A	
	Toshiba	TC511000B	
M5M41000B	Mosel-Vitelic	V53C100B	
	OKI	MSM511000B	
M5M41001	Motorola	MCM511001	
	Toshiba	TC511001	
M5M41001A	OKI	MSM511001A	
	Toshiba	TC511001B	
M5M41001B	OKI	MSM511001B	
M5M41002	MicronSemi	MT4C1026	
	Motorola	MCM511002	
M5M41002A	OKI	MSM511002A	
	Toshiba	TC511002	
M5M41002B	OKI	MSM511002B	
M5M4116	Krueger	4116-120	
		4116-150	
		4116-200	
M5M41257	OKI	MSM41257A	
M5M4256	GoldStar	GM71256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	
	NEC	µPD41256	
	OKI	MSM41256A	
	Panasonic	MN41256	
	Siemens	HYB41256	
M5M4256A	GoldStar	GM71C256A	
	Hyundai	HY53C256	
	OKI	MSM51C256A	
M5M4257	Panasonic	MN41257	
M5M44C256	GoldStar	GM71C4256	
		GM71C7256	
	Motorola	MCM514256A	
	OKI	MSM514256B	
	Panasonic	MN41C4256	
	TI	TMS44C256	
M5M44C256B	GoldStar	GM71C4256A	
M5M44C258	OKI	MSM514258	
	Panasonic	MN41C4258	
M5M4400	Mosel-Vitelic	V53C404	
M5M4400AL	GoldStar	GM71C4400AL	
M5M44000	OKI	MSM514100A	
		MSM514402A	
M5M44001	OKI	MSM514101A	
M5M44002	OKI	MSM514102A	
M5M44100	Hyundai	HY514100	
	MicronSemi	MT4C1004	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
		MCM54100A	
	NEC	µPD424100	
	TI	TMS44100	
	Toshiba	TC514100	
M5M44100A	GoldStar	GM71C4100A	
M5M44100AL	GoldStar	GM71C4100AL	
M5M44101	Motorola	MCM54101	
		MCM54101A	
	NEC	µPD424101	
	TI	TMS44101	
M5M44102	MicronSemi	MT4C1006	
	Motorola	MCM54102	
		MCM54102A	
	NEC	µPD424102	
	Toshiba	TC514102	
M5M4416	Krueger	41416-100	
		41416-120	
		41416-150	
M5M44170	MicronSemi	MT4C16256	
		MT4C16257	
		MT4C16260	
M5M442256	MicronSemi	MT42C4256	
	NEC	µPD42273	
		µPD42274	
	Samsung	KM424C257	
	TI	TMS44C250	
		TMS44C251	
M5M44256	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
		MT4C4258	
	Mosel-Vitelic	V52C4258	
		V53C104	
		V53C104B	
	Motorola	MCM514256	
	OKI	MSM514256B	
	Toshiba	TC514256	
M5M44256A	OKI	MSM514256A	
M5M44256B	Hyundai	HY534256	
	Toshiba	TC514256B	
M5M44258	Motorola	MCM514258	
	OKI	MSM514258	
	Toshiba	TC514258	
M5M44258A	OKI	MSM514258A	
M5M44258B	Toshiba	TC514258B	
M5M44260	MicronSemi	MT4C16256	
		MT4C16257	
M5M44260A	GoldStar	GM71C4260	
M5M44266B	OKI	MSM514266B	
	Toshiba	TC514266B	
M5M44268	Toshiba	TC514266	
M5M44400	Hyundai	HY514400	
	MicronSemi	MT4C4001	
	Motorola	MCM514400	
		MCM54400	
		MCM54400A	
	NEC	µPD424400	
	TI	TMS44400	
		TMS44410	
	Toshiba	TC514400	
M5M44400A	GoldStar	GM71C4400A	
M5M44402	MicronSemi	MT4C4003	
	Motorola	MCM54402	
		MCM54402A	
	NEC	µPD424402	
	OKI	MSM514400A	
	Toshiba	TC514402	
M5M44410	Toshiba	TC514410	
M5M4464	GoldStar	GM71C464	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mosel-Vitelic	V53C464	
	NEC	µPD41464	
	Panasonic	MN41464	
M5M4464A	GoldStar	GM71C464A	
	OKI	MSM51C464A	
M5M44800	MicronSemi	MT4C8512	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Mitsubishi Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M5M44800A	GoldStar	GM71C4800	
M5M482128	MicronSemi	MT42C8128	
	Mosel-Vitelic	V52C8128	
	NEC	µPD42275	
	Samsung	KM428C128	
M5M4825256	MicronSemi	MT42C8257	
M5M51001	AT&T	ATT7C107	
	MicronSemi	MT5C1001	
	NEC	µPD431001	
M5M51004	AT&T	ATT7C106	
	MicronSemi	MT5C1005	
	NEC	µPD431004	
	Sharp	LH521002	
M5M51008	Hyundai	HY628100	
	NEC	µPD431000	
	OKI	MSM521001	
	Sony	CXK581000	
		CXK581001	
M5M5117	GoldStar	GM76C28	
	Harris	HM65162	
	Panasonic	MN4416	
M5M5164	Harris	HM65642	
M5M5165	Cypress	CY7C186	
	GoldStar	GM76C88	
		GM76C88L	
	Hyundai	HY6264A	
	IDT	IDT7164	
	Krueger	**6264-100**	(3663)
		6264-120	(3663)
		6264-150	(3663)
		6264L-120	
		6264LP-100	(3663)
		6264LP-120	(3663)
		6264LP-150	(3663)
	Mosel-Vitelic	MS6264	
	OKI	MSM5165	
	Panasonic	MN4464	
	Samsung	KM6264	
	SGS-Thomson	IMS1630	
		MK48H64	
	Sharp	LH5168	
	Sony	CXK5864	
	Toshiba	TC5563	
	UMC	UM6264	
M5M5165P-70L	Krueger	6264LP-070	
M5M5165P70	Krueger	6264-070	
M5M5178	AT&T	ATT7C185	
	Cypress	CY7C186	
	IDT	IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	MicronSemi	MT5C6408	
	Mosel-Vitelic	MS6264	
	SGS-Thomson	IMS1630	
	Toshiba	TC5588	
M5M5178-35	Krueger	6264LP-035	
M5M5178-45	Krueger	6264LP-045	
M5M5179	Toshiba	TC5589	
M5M518	Motorola	MCM6287	
M5M5187	AT&T	ATT7C187	
	Cypress	CY7C187	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	(3663)
		6287-55	
	MicronSemi	MT5C6401	
	Motorola	MCM6287	
	SGS-Thomson	IMS1600	
	Toshiba	TC5561	
		TC5562	
M5M5188	AT&T	ATT7C164	
	IDT	IDT7188	
	Krueger	**6288-25**	(3663)
		6288-35	
		6288-45	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	OKI	MSM5188	
	SGS-Thomson	IMS1620	
	Toshiba	TC55416	
M5M5189	AT&T	ATT7C166	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Toshiba	TC55417	
M5M51998	GoldStar	GM76C8128L	
M5M52256	Fujitsu	MB84256	
M5M5255	Sharp	LH52250AL	
M5M5256	Catalyst Semi	CAT71C256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mosel-Vitelic	MS62256	
		MS62257	
	NEC	µPD43256	
	OKI	MSM51257	
	Panasonic	MN44256	
	SGS-Thomson	MK4832	
	Sharp	LH52250AL	
	Toshiba	TC55257	
	UMC	UM62256	
M5M5256B	GoldStar	GM76C256	
	Hyundai	HY62256A	
M5M5257	AT&T	ATT7C197	
	Cypress	CY7C164	
		CY7C197	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Mosel-Vitelic	MS62251A	
	Motorola	MCM6207	
	Paradigm	PDM41257	
M5M5258	AT&T	ATT7C194	
	Cypress	CY7C194	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mosel-Vitelic	MS62252A	
	Motorola	MCM6208	
	Paradigm	PDM41258	
	Sharp	LH52252	
	Toshiba	TC55464	
M5M5259	MicronSemi	MT5C2565	
	Motorola	MCM6209	
M5M5260	Motorola	MCM6207	
	Paradigm	PDM41257	
M5M5265	Samsung	KM62256	
M5M5278	MicronSemi	MT5C2568	
	Motorola	MCM6206	
M5M5279	MicronSemi	MT5C2889	
	Motorola	MCM6205	
M5M5517	UMC	UM6116	
M5M58981	Harris	HM6514	
M5M6116	Hyundai	HY6116A	
M5M6165	Mosel-Vitelic	MS6264	
M5M80C85A	Newbridge	CA80C85B	
M5M82C37	Harris	82C37	
M5M82C37A	Newbridge	CA82C37A	
M5M82C51	OKI	MSM82C51	
M5M82C54	Harris	82C54	
	Newbridge	CA82C54	
	OKI	M5M82C54	
M5M82C55	Harris	82C55	
	OKI	MSM82C55	
M5M82C55A	Newbridge	CA82C55A	
M5M82C59	Harris	82C59	
	OKI	MSM82C59	
M5M82C59A	Newbridge	CA82C59A	
M50253	**NJR**	**NJU3713**	(3705)
		NJU3714	
M50255	**NJR**	**NJU3715**	(3705)
		NJU3716	
M50554	Samsung	KS5512	
M51207	Panasonic	AN6915	
M51209	Panasonic	AN6918	
M5209	NJR	NJM4562	
M5210	NJR	NJM2043	
M5216	**NJR**	**NJM4556**	(3704)
M5218	**NJR**	**NJM4558**	(3704)
		NJM4560	(3704)
		NJM4565	
M5219	NJR	NJM4562	
M5220	NJR	NJM2043	
M5221	NJR	NJM072	
		NJM082	
M5223	**NJR**	**NJM2904**	(3704)
M5224	NJR	NJM2902	
		NJM324	
M5228	**NJR**	**NJM2058**	(3704)
M5233	NJR	NJM2903	
M5234	NJR	NJM2901	
M5238	**NJR**	**NJM2082**	(3704)
M5260	**NJR**	**NJM4560**	(3704)
		NJM4565	
M54475	GEC Plessey	SP8703	
		SP8704	
M54523	Allegro Micro	ULN2003	
M54524	Allegro Micro	ULN2001	
M54526	Allegro Micro	ULN2004	
M54532	Allegro Micro	UDN2982	
		ULN2064	
M54562	Allegro Micro	UDN2982	
M54563	Allegro Micro	UDN2981	
M58725	**Krueger**	**2128-100**	(3663)
		2128-120	(3663)
M6M80021	EXEL	XL90C21	
M6M80041	EXEL	XL90C41	
♦ M74ALS00A	National	DM74ALS00	
	Philips	74ALS00A	
	TI	SN74ALS00A	
M74ALS02	National	DM74ALS02	
	Philips	74ALS02	
	TI	SN74ALS02	
M74ALS03B	National	DM74ALS03	
	TI	SN74ALS03B	
M74ALS04B	National	DM74ALS04	
	Philips	74ALS04B	
	TI	SN74ALS04B	
M74ALS05A	National	DM74ALS05	
	TI	SN74ALS05A	
M74ALS08	National	DM74ALS08	
	Philips	74ALS08	
	TI	SN74ALS08	
M74ALS09	National	DM74ALS09	
	TI	SN74ALS09A	
M74ALS10A	National	DM74ALS10	
	Philips	74ALS10A	
	TI	SN74ALS10A	
M74ALS1000A	National	DM74ALS1000	
	TI	SN74ALS1000A	
M74ALS1002A	National	DM74ALS1002	
	TI	SN74ALS1002A	
M74ALS1003A	National	DM74ALS1003	
	TI	SN74ALS1003A	
M74ALS1004	National	DM74ALS1004	
	TI	SN74ALS1004	
M74ALS1005	National	DM74ALS1005	
	TI	SN74ALS1005	
M74ALS1008A	National	DM74ALS1008	
	TI	SN74ALS1008A	
M74ALS1010A	National	DM74ALS1010	
	TI	SN74ALS1010A	
M74ALS1011A	National	DM74ALS1011	
	TI	SN74ALS1011A	
M74ALS1020A	National	DM74ALS1020	
	TI	SN74ALS1020A	
M74ALS1032A	National	DM74ALS1032	
	TI	SN74ALS1032A	
M74ALS1034	National	DM74ALS1034	
	TI	SN74ALS1034	
M74ALS1035	National	DM74ALS1035	
	TI	SN74ALS1035	
M74ALS109A	National	DM74ALS109	
	Philips	74ALS109A	
	TI	SN74ALS109	
M74ALS11A	National	DM74ALS11	
	Philips	74ALS11A	
	TI	SN74ALS11A	
M74ALS112A	Philips	74ALS112A	
	TI	SN74ALS112A	
M74ALS113A	TI	SN74ALS113A	
M74ALS114A	TI	SN74ALS114A	
♦ M74ALS12	Mitsubishi	M74ALS12A	
	National	DM74ALS12	
	TI	SN74ALS12A	
M74ALS12A	National	DM74ALS12	
	TI	SN74ALS12A	
M74ALS1240A	National	DM74ALS1240	
	TI	SN74ALS1240	
		SN74ALS1240-	
M74ALS1241A	National	DM74ALS1241	
M74ALS1242A	National	DM74ALS1242	
	TI	SN74ALS1242	
		SN74ALS1242-	
M74ALS1243A	National	DM74ALS1243	
M74ALS1244A	National	DM74ALS1244	
	TI	SN74ALS1244A	
		SN74ALS1244A	
M74ALS1245A	TI	SN74ALS1245A	
		SN74ALS1245A	
M74ALS131	National	DM74ALS131	
	TI	SN74ALS131	
M74ALS133	National	DM74ALS132	
		DM74ALS133	
	TI	SN74ALS133	
M74ALS137	National	DM74ALS137	
	TI	SN74ALS137	
M74ALS138	National	DM74ALS138	
	Philips	74ALS138	
	TI	SN74ALS138	
M74ALS15A	National	DM74ALS14	
		DM74ALS15	
	TI	SN74ALS15A	
M74ALS151	National	DM74ALS151	
	Philips	74ALS151	
	TI	SN74ALS151	
M74ALS153	National	DM74ALS153	
	Philips	74ALS153	
	TI	SN74ALS153	
M74ALS157	National	DM74ALS157	
	Philips	74ALS157	
	TI	SN74ALS156	
		SN74ALS157	
M74ALS158	National	DM74ALS158	
	Philips	74ALS158	
	TI	SN74ALS158	
M74ALS160B	National	DM74ALS160	
	TI	SN74ALS160B	
M74ALS161B	National	DM74ALS161	
	Philips	74ALS161B	
	TI	SN74ALS161B	
M74ALS162B	National	DM74ALS162	
	TI	SN74ALS162B	
M74ALS1620A	Mitsubishi	M74ALS1621A	
M74ALS1621A	Mitsubishi	M74ALS1620A	
M74ALS1622A	Mitsubishi	M74ALS1623A	
M74ALS1623A	Mitsubishi	M74ALS1622A	
M74ALS163B	National	DM74ALS163	
	Philips	74ALS163B	
	TI	SN74ALS163B	
M74ALS1640A	TI	SN74ALS1640	
		SN74ALS1640	
M74ALS1641A	Mitsubishi	M74ALS1642A	
M74ALS1642A	Mitsubishi	M74ALS1641A	
M74ALS1643A	Mitsubishi	M74ALS1644A	
M74ALS1644A	Mitsubishi	M74ALS1643A	
M74ALS1645A	TI	SN74ALS1645	
		SN74ALS1645	
M74ALS168B	National	DM74ALS168	
	TI	SN74ALS168B	
M74ALS169B	National	DM74ALS169	
	TI	SN74ALS169B	
M74ALS174	National	DM74ALS174	
	Philips	74ALS174	
	TI	SN74ALS174	
M74ALS175	National	DM74ALS175	
	Philips	74ALS175	
	TI	SN74ALS175	
M74ALS190	TI	SN74ALS190	
M74ALS191	Philips	74ALS191	
	TI	SN74ALS191	
M74ALS192	TI	SN74ALS192	
M74ALS193	Philips	74ALS193	
	TI	SN74ALS193	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Mitsubishi Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M74ALS20A	National	DM74ALS20	
	Philips	74ALS20A	
	TI	SN74ALS20A	
M74ALS21A	National	DM74ALS21	
	TI	SN74ALS21A	
M74ALS22B	National	DM74ALS22	
	TI	SN74ALS22B	
M74ALS240	Harris	CD74FCT240	
M74ALS240A	Mitsubishi	M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
M74ALS240A-1			
	Mitsubishi	M74ALS240A	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
M74ALS241	Harris	CD74FCT241	
M74ALS241A	Mitsubishi	M74ALS241A-1	
	National	DM74ALS241	
		DM74ALS241A	
	Philips	74ALS241A-1	
	TI	SN74ALS241A	
		SN74ALS241A-1	
M74ALS241A-1			
	Mitsubishi	M74ALS241A	
	National	DM74ALS241	
		DM74ALS241A	
	Philips	74ALS241A-1	
	TI	SN74ALS241A	
		SN74ALS241A-1	
M74ALS242A	National	DM74ALS242	
	TI	SN74ALS242B	
		SN74ALS242B-1	
M74ALS243A	National	DM74ALS243	
	TI	SN74ALS243A	
		SN74ALS243A-1	
M74ALS244	Harris	CD74FCT244	
M74ALS244	Mitsubishi	M74ALS244A	
		M74ALS244A-1	
M74ALS244	National	DM74ALS244	
	Philips	74ALS244A	
		74ALS244A-1	
M74ALS244	TI	SN74ALS244A	
		SN74ALS244A-1	
M74ALS244A	Mitsubishi	M74ALS244A-1	
	National	DM74ALS244	
	Philips	74ALS244A	
		74ALS244A-1	
	TI	SN74ALS244A	
		SN74ALS244A-1	
M74ALS244A-1			
	Mitsubishi	M74ALS244A	
	National	DM74ALS244	
	Philips	74ALS244A	
		74ALS244A-1	
	TI	SN74ALS244A	
		SN74ALS244A-1	
M74ALS245	Harris	CD74FCT245	
M74ALS245A	Mitsubishi	M74ALS245A-1	
	National	DM74ALS245	
	Philips	74ALS245A	
		74ALS245A-1	
	TI	SN74ALS2442	
		SN74ALS245A	
		SN74ALS245A-1	
M74ALS245A-1			
	Mitsubishi	M74ALS245A	
	National	DM74ALS245	
	Philips	74ALS245A	
		74ALS245A-1	
	TI	SN74ALS2442	
		SN74ALS245A	
		SN74ALS245A-1	
M74ALS251	National	DM74ALS251	
	Philips	74ALS251	
	TI	SN74ALS251	
M74ALS253	National	DM74ALS253	
	Philips	74ALS253	
	TI	SN74ALS253	

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74ALS257	National	DM74ALS257	
	Philips	74ALS257	
	TI	SN74ALS257	
M74ALS258	National	DM74ALS258	
	Philips	74ALS258	
	TI	SN74ALS258	
◆ M74ALS27	National	DM74ALS27	
	Philips	74ALS27	
	TI	SN74ALS259	
		SN74ALS27	
M74ALS273	Harris	CD74FCT273	
	National	DM74ALS273	
	Philips	74ALS273	
	TI	SN74ALS273	
M74ALS28A	National	DM74ALS28	
	TI	SN74ALS28A	
◆ M74ALS299	TI	SN74ALS29864	
		SN74ALS299	
M74ALS30A	National	DM74ALS30	
	Philips	74ALS30A	
	TI	SN74ALS30A	
◆ M74ALS32	National	DM74ALS32	
	Philips	74ALS32	
	TI	SN74ALS32	
◆ M74ALS323	TI	SN74ALS323	
M74ALS33A	National	DM74ALS33	
	TI	SN74ALS33A	
M74ALS352	National	DM74ALS352	
	TI	SN74ALS352	
M74ALS353	National	DM74ALS353	
	TI	SN74ALS353	
M74ALS37A	National	DM74ALS37	
	TI	SN74ALS37A	
M74ALS373	National	DM74ALS373	
	Philips	74ALS373	
	TI	SN74ALS373	
M74ALS374	Harris	CD74FCT373	
		CD74FCT374	
	National	DM74ALS374	
		DM74ALS374A	
	Philips	74ALS374	
	TI	SN74ALS374	
		SN74ALS374A	
◆ M74ALS377	Philips	74ALS377	
◆ M74ALS38	Mitsubishi	M74ALS38A	
	National	DM74ALS38	
	Philips	74ALS38A	
	TI	SN74ALS38A	
M74ALS38A	National	DM74ALS38	
	Philips	74ALS38A	
	TI	SN74ALS38A	
M74ALS40A	National	DM74ALS40	
	TI	SN74ALS40A	
M74ALS465A	National	DM74ALS465	
	TI	SN74ALS465A	
M74ALS466A	National	DM74ALS466	
	TI	SN74ALS466A	
M74ALS467A	National	DM74ALS467	
	TI	SN74ALS467A	
M74ALS468A	National	DM74ALS468	
	TI	SN74ALS468A	
M74ALS533	Harris	CD74FCT533	
	National	DM74ALS533	
	TI	SN74ALS527	
		SN74ALS533	
M74ALS534	Harris	CD74FCT534	
	National	DM74ALS534	
	TI	SN74ALS534	
		SN74ALS534A	
M74ALS560A	TI	SN74ALS560A	
◆ M74ALS561A	TI	SN74ALS561A	
M74ALS563	Harris	CD74FCT563	
◆ M74ALS563	Mitsubishi	M74ALS563A	
	National	DM74ALS563	
	Philips	74ALS563A	
	TI	SN74ALS563	
		SN74ALS563A	
M74ALS563A	National	DM74ALS563	
	Philips	74ALS563A	
	TI	SN74ALS563	
		SN74ALS563A	
M74ALS564	Harris	CD74FCT564	
M74ALS564A	National	DM74ALS564	
	Philips	74ALS564A	
	TI	SN74ALS564	
		SN74ALS564A	
M74ALS568A	TI	SN74ALS568A	
M74ALS569A	TI	SN74ALS569A	
M74ALS573	Harris	CD74FCT573	
M74ALS573B	National	DM74ALS573	
	Philips	74ALS573B	
	TI	SN74ALS573	
		SN74ALS573B	

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74ALS574	Harris	CD74FCT574	
M74ALS574A	National	DM74ALS574	
	Philips	74ALS574A	
	TI	SN74ALS574	
		SN74ALS574A	
M74ALS575A	TI	SN74ALS575A	
M74ALS576A	National	DM74ALS576	
	TI	SN74ALS576	
		SN74ALS576A	
M74ALS577A	TI	SN74ALS577A	
M74ALS580A	National	DM74ALS580	
	TI	SN74ALS580	
		SN74ALS580A	
M74ALS620A	Mitsubishi	M74ALS620A-1	
	Philips	74ALS620A	
		74ALS620A-1	
	TI	SN74ALS614-1	
		SN74ALS620A	
		SN74ALS620A-1	
M74ALS620A-1			
	Mitsubishi	M74ALS620A	
	Philips	74ALS620A	
		74ALS620A-1	
	TI	SN74ALS614-1	
		SN74ALS620A	
		SN74ALS620A-1	
M74ALS621A	TI	SN74ALS621A	
		SN74ALS621A-1	
M74ALS622A	TI	SN74ALS622A	
		SN74ALS622A-1	
M74ALS623	Harris	CD74FCT623	
M74ALS623A	Mitsubishi	M74ALS623A-1	
	Philips	74ALS623A	
		74ALS623A-1	
	TI	SN74ALS623A	
		SN74ALS623A-1	
M74ALS623A-1			
	Mitsubishi	M74ALS623A	
	Philips	74ALS623A	
		74ALS623A-1	
	TI	SN74ALS623A	
		SN74ALS623A-1	
M74ALS640A	Mitsubishi	M74ALS640A-1	
	National	DM74ALS640	
	TI	SN74ALS640A	
		SN74ALS640A-1	
M74ALS640A-1			
	Mitsubishi	M74ALS640A	
	National	DM74ALS640	
	TI	SN74ALS640A	
		SN74ALS640A-1	
M74ALS641A	TI	SN74ALS641A	
		SN74ALS641A-1	
M74ALS642A	TI	SN74ALS642A	
		SN74ALS642A-1	
M74ALS643A	TI	SN74ALS643A	
		SN74ALS643A-1	
M74ALS644A	TI	SN74ALS644A	
		SN74ALS644A-1	
M74ALS645A	Mitsubishi	M74ALS645A-1	
	National	DM74ALS645	
	Philips	74ALS645A	
		74ALS645A-1	
	TI	SN74ALS645A	
		SN74ALS645A-1	
M74ALS645A-1			
	Mitsubishi	M74ALS645A	
	National	DM74ALS645	
	Philips	74ALS645A	
		74ALS645A-1	
	TI	SN74ALS645A	
		SN74ALS645A-1	
M74ALS646	Harris	CD74FCT646	
	Philips	74ALS646	
		74ALS646-1	
	TI	SN74ALS646	
		SN74ALS646-1	
M74ALS647	Harris	CD74FCT647	
	TI	SN74ALS647	
		SN74ALS647-1	
M74ALS648	Harris	CD74FCT648	
	National	DM74ALS648	
		DM74ALS648-1	
	Philips	74ALS648	
		74ALS648-1	
	TI	SN74ALS648	
		SN74ALS648-1	
M74ALS649	Harris	CD74FCT649	
	TI	SN74ALS649	
		SN74ALS649-1	
M74ALS651	Harris	CD74FCT651	
	National	DM74ALS651	
		DM74ALS651-1	

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74ALS651			(Cont'd)
	Philips	74ALS651	
		74ALS651-1	
	TI	SN74ALS651	
		SN74ALS651-1	
M74ALS652	Harris	CD74FCT652	
	Philips	74ALS652	
		74ALS652-1	
	TI	SN74ALS652	
		SN74ALS652-1	
M74ALS74A	National	DM74ALS74	
	Philips	74ALS74A	
	TI	SN74ALS74A	
M74ALS873B	National	DM74ALS873	
	TI	SN74ALS873B	
M74ALS874B	National	DM74ALS874	
	TI	SN74ALS874B	
M74ALS876A	National	DM74ALS876	
	TI	SN74ALS876A	
M74ALS878A	TI	SN74ALS878A	
M74ALS879A	TI	SN74ALS879A	
M74ALS880A	National	DM74ALS880	
	TI	SN74ALS880A	
M74F00	Motorola	MC74F00	
	National	MM74C989	
		74F00	
	Philips	74F00	
	TI	SN74F00	
M74F02	Motorola	MC74F02	
	National	74F02	
	Philips	74F02	
	TI	SN74F02	
M74F04	Motorola	MC74F04	
	National	74F04	
	Philips	74F04	
	TI	SN74F04	
M74F08	Motorola	MC74F08	
	National	74F08	
	Philips	74F08	
	TI	SN74F08	
M74F10	Motorola	MC74F10	
	National	74F10	
	Philips	74F10	
	TI	SN74F09	
		SN74F10	
M74F109	Motorola	MC74F109	
	National	74F109	
	Philips	74F109	
	TI	SN74F109	
M74F11	Motorola	MC74F11	
	National	74F11	
	Philips	74F11	
	TI	SN74F11	
M74F112	Motorola	MC74F112	
	National	74F112	
	Philips	74F112	
	TI	SN74F112	
M74F125	Motorola	MC74F125	
	National	74F125	
	Philips	74F125	
	TI	SN74F125	
M74F138	Motorola	MC74F138	
	National	74F138	
	Philips	74F133	
		74F138	
	TI	SN74F138	
M74F139	Motorola	MC74F139	
	National	74F139	
	Philips	74F139	
M74F14	Motorola	MC74F14	
	National	74F14	
	Philips	74F14	
M74F151A	Motorola	MC74F151	
	National	74F151	
		74F151A	
	Philips	N74F151	
		N74F151A	
		74F151	
	TI	SN74F151	
		SN74F151A	
M74F153	Motorola	MC74F153	
	National	74F153	
	Philips	74F153	
	TI	SN74F153	
M74F157A	Motorola	MC74F157	
		MC74F157A	
	National	74F157	
		74F157A	
	Philips	74F154	
		74F157	
		74F157A	
	TI	SN74F157A	

(Continued)

◆ iscontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74F158A	Motorola	MC74F158	
		MC74F158A	
	National	74F158	
		74F158A	
	Philips	N74F158A	
		74F158	
	TI	SN74F158A	
M74F161A	Motorola	MC74F161A	
	National	74F161A	
	Philips	74F1604	
		74F161A	
	TI	SN74F161A	
M74F163A	Motorola	MC74F163A	
	National	74F163A	
	Philips	74F163A	
	TI	SN74F163A	
M74F164	Motorola	MC74F164	
	National	74F164	
		74F164A	
	Philips	74F164	
M74F169	Motorola	MC74F169	
	National	74F169	
	Philips	74F169	
	TI	SN74F169	
M74F174	Motorola	MC74F174	
	National	74F174	
	Philips	74F173	
		74F174	
	TI	SN74F174	
M74F175	Motorola	MC74F175	
	National	74F175	
	Philips	74F175	
		74F175A	
	TI	SN74F175	
M74F20	Motorola	MC74F20	
	National	74F20	
	Philips	74F20	
	TI	SN74F20	
M74F240	Harris	CD74FCT240	
	Motorola	MC74F240	
	National	74F240	
	Philips	74F225	
		74F240	
		74F240A	
	TI	SN74F240	
M74F241	Harris	CD74FCT241	
	Motorola	MC74F241	
	National	74F241	
	Philips	74F241	
		74F241A	
	TI	SN74F241	
M74F244	Harris	CD74FCT244	
	Motorola	MC74F244	
	National	74F244	
	Philips	74F244	
		74F244B	
	TI	SN74F244	
M74F245	Harris	CD74FCT245	
	Motorola	MC74F245	
	National	74F245	
	Philips	74F245	
	TI	SN74F245	
M74F251A	Motorola	MC74F251	
	National	74F251	
		74F251A	
	Philips	N74F251A	
		74F251	
		74F251A	
	TI	SN74F251	
		SN74F251A	
M74F253	Motorola	MC74F253	
	National	74F253	
	Philips	74F253	
	TI	SN74F253	
M74F257A	Motorola	MC74F257	
		MC74F257A	
	National	74F257	
		74F257A	
	Philips	N74F257A	
		74F257	
		74F257A	
	TI	SN74F257	
M74F258A	Motorola	MC74F258	
		MC74F258A	
	National	74F258	
		74F258A	
	Philips	N74F258A	
		74F258	
		74F258A	
	TI	SN74F258	
M74F280	Motorola	MC74F280	
	National	74F280	
	Philips	74F280A	
		74F280B	
	TI	SN74F280A	
M74F283	Motorola	MC74F283	
	National	74F283	
	Philips	74F283	
	TI	SN74F283	
M74F30	National	74F30	
	Philips	74F30	
	TI	SN74F30	
M74F32	Motorola	MC74F32	
	National	74F32	
	Philips	74F32	
	TI	SN74F32	
M74F352	Motorola	MC74F352	
	National	74F352	
	Philips	74F352	
	TI	SN74F352	
M74F353	Motorola	MC74F353	
	National	74F353	
	Philips	74F353	
	TI	SN74F353	
M74F373	Harris	CD74FCT373	
	Motorola	MC74F373	
	National	74F373	
	Philips	74F373	
	TI	SN74F373	
M74F374	Harris	CD74FCT374	
	Motorola	MC74F374	
	National	74F374	
	Philips	74F374	
	TI	SN74F374	
M74F521	Motorola	MC74F521	
	National	74F521	
	Philips	74F521	
	TI	SN74F521	
M74F543	Harris	CD74FCT543	
	Motorola	MC74F543	
	National	74F543	
	Philips	74F543	
	TI	SN74F543	
M74F573	Harris	CD74FCT573	
	National	74F573	
	Philips	74F573	
	TI	SN74F573	
M74F574	Harris	CD74FCT574	
	Motorola	MC74F574	
	National	74F574	
	Philips	N74F574	
	TI	SN74F574	
M74F646	Harris	CD74FCT646	
	Motorola	MC74F646	
	National	74F646	
	Philips	N74F646A	
		74F646	
		74F646A	
	TI	SN74F646	
M74F648	Harris	CD74FCT648	
	Motorola	MC74F648	
	National	74F648	
	Philips	N74F648A	
		74F647	
		74F648	
		74F648A	
M74F74	Motorola	MC74F74	
	National	74F74	
	Philips	74F74	
	TI	SN74F74	
M74F821	Harris	CD74FCT821	
	National	74F821	
	Philips	N74F821	
		74F821	
M74F823	Harris	CD74FCT823	
	National	74F823	
	Philips	N74F823	
		74F822	
		74F823	
M74F825	National	74F825	
	Philips	N74F825	
		74F824	
		74F825	
M74F841	Harris	CD74FCT841	
	National	74F841	
	Philips	N74F841	
		74F841	
M74F843	Harris	CD74FCT843	
	National	74F843	
	Philips	N74F843	
		74F842	
		74F843	
			(Continued)
M74F845	National	74F845	
	Philips	N74F845	
		74F844	
		74F845	
M74F86	Motorola	MC74F86	
	National	74F86	
	Philips	74F86	
	TI	SN74F86	
M74HCT00	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	Philips	74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
M74HCT138-1	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
M74HCT139-1	GEC Plessey	MV74HCT139	
		74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	National	MM74HCT139	
	Philips	74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	**(3836)**
M74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
M74HCT240-1	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
M74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
M74HCT241-1	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
M74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
			(Continued)
M74HCT244			(Cont'
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(383**
M74HCT244-1	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(383**
M74HCT245-1	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(38**
M74HCT273-1	GoldStar	GD74HCT273	
	Harris	CD74HCT273	
	Motorola	MC74HCT273A	
	National	MM74HCT273	
	Philips	74HCT273	
	Toshiba	**TC74HCT273A**	**(38**
M74HCT373-1	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(38**
M74HCT374-1	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(38**
M74HCT533-1	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(38**
M74HCT534-1	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
			(Continu

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74HCT534-1			(Cont'd)
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
M74HCT640-1	Harris	CD74HCT640	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
	Universal	US74HCT640	
M74HCT643-1	Harris	CD74HCT643	
	National	MM74HCT643	
	Philips	74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
M74HCT645-1	TI	SN74HCT645	
M74HCT841-1	Mitsubishi	M74HCT842-1	
M74HCT842-1	Mitsubishi	M74HCT841-1	
M74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
M74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
M74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
M74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
M74HC05	GoldStar	GD74HC05	
	National	MM74HC05	
	TI	SN74HC05	
	Toshiba	**TC74HC05A**	**(3836)**
M74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
M74HC09	GoldStar	GD74HC09	
	TI	SN74HC09	
	Toshiba	**TC74HC09A**	**(3836)**
M74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
			(Continued)
♦ M74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
♦ M74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
♦ M74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
♦ M74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
M74HC113	Motorola	MC74HC113	
	National	MM74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	**(3836)**
M74HC114	Rochester	74HC114	
	TI	SN74HC114	
♦ M74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123 MM74HC123A	
♦ M74HC123	Philips	74HC123	
	SGS-Thomson	M74HC123 M74HC123A	
♦ M74HC123	Toshiba	TC74HC123 TC74HC123A	
M74HC123A	Harris	CD74HC123	
	National	MM74HC123 MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123 M74HC123A	
	Toshiba	TC74HC123 TC74HC123A	
♦ M74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
♦ M74HC126	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
♦ M74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
			(Continued)
♦ M74HC132			(Cont'd)
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
♦ M74HC133	Motorola	MC74HC133	
	National	MM74HC133	
	SGS-Thomson	M74HC133	
	TI	SN74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
M74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
♦ M74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
M74HC138-1	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
♦ M74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
M74HC139-1	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
M74HC14	Harris	CD74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
♦ M74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
♦ M74HC148	GoldStar	GD74HC148	
	National	MM74HC148	
	SGS-Thomson	M74HC148	
	TI	SN74HC148	
	Toshiba	**TC74HC148A**	**(3836)**
♦ M74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149 MM74HC151	
			(Continued)
♦ M74HC151	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
♦ M74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
♦ M74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
M74HC155	GoldStar	GD74HC155	
	National	MM74HC155	
	SGS-Thomson	M74HC155	
	Toshiba	**TC74HC155A**	**(3836)**
♦ M74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
♦ M74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
M74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
♦ M74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
M74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
♦ M74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Mitsubishi Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ M74HC163			(Cont'd)
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	(3836)
	Universal	US74HC163	
◆ M74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	(3836)
	Universal	US74HC164	
◆ M74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	(3836)
	Universal	US74HC165	
◆ M74HC166	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	(3836)
◆ M74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	(3836)
	Universal	US74HC173	
◆ M74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	(3836)
	Universal	US74HC174	
◆ M74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	(3836)
	Universal	US74HC175	
M74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	(3836)
	Universal	US74HC191	
M74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	(3836)
	Universal	US74HC192	
M74HC193	Harris	CD74HC193	
	National	MM74HC193	
			(Continued)
M74HC193			(Cont'd)
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	(3836)
	Universal	US74HC193	
M74HC194	Harris	CD74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	(3836)
	Universal	US74HC194	
M74HC195	Harris	CD74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	(3836)
	Universal	US74HC195	
M74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	(3836)
	Universal	US74HC20	
M74HC237	Harris	CD74HC22106 CD74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	(3836)
M74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	(3836)
M74HC240-1	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	(3836)
M74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241 M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	(3836)
M74HC242	Harris	CD74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	(3836)
M74HC243	Harris	CD74HC243	
	National	MM74HC243	
	Philips	74HC243	
			(Continued)
M74HC243			(Cont'd)
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	(3836)
M74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	(3836)
M74HC244-1	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	(3836)
M74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245 MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	(3836)
M74HC245-1	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
	Motorola	MC74HC245A	
	National	MM74HC245 MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	(3836)
M74HC251	Harris	CD74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	(3836)
M74HC253	Harris	CD74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	(3836)
M74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	(3836)
M74HC259	Harris	CD74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	(3836)
M74HC266	Mitsubishi	M74HC266A	
	National	MM74HC266	
	SGS-Thomson	M74HC266	
			(Continued)
M74HC266			(Cont'd)
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	(3836)
M74HC266A	Mitsubishi	M74HC266	
	National	MM74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	(3836
M74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	(3836
M74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	(38
M74HC273-1	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	(3836
M74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	(383
M74HC283	Harris	CD74HC283	
	National	MM74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	(383
M74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	(383
M74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	(383
◆ M74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	(383
◆ M74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC366			(Cont'd)
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
M74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
M74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
M74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
M74HC373-1	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
M74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
M74HC374-1	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
M74HC375	SGS-Thomson	M74HC375	
	TI	SN74HC375	
	Toshiba	**TC74HC375A**	**(3836)**
M74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
M74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC4002	Harris	CD74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	**(3836)**
M74HC4020	Harris	CD74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
M74HC4024	Harris	CD74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836)**
M74HC4040	Harris	CD74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836)**
M74HC4049B	Harris	CD74HC4049	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
M74HC4050B	Harris	CD74HC4050	
	Motorola	MC74HC4050	
	National	MM74HC4050	
	Philips	74HC4050	
	SGS-Thomson	M74HC4050	
	Toshiba	**TC74HC4050A**	**(3836)**
M74HC4051	Harris	CD74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
M74HC4052	Harris	CD74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
M74HC4053	Harris	CD74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
M74HC4075	Harris	CD74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	**(3836)**
M74HC4078	Motorola	MC74HC4078	
	National	MM74HC4078	
	SGS-Thomson	M74HC4078	
	TI	SN74HC4078A	
	Toshiba	**TC74HC4078A**	**(3836)**
M74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Motorola	MC74HC42	

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC42			(Cont'd)
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
♦ M74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
M74HC51	GoldStar	GD74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
M74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521 MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
M74HC533-1	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
	Motorola	MC74HC533A	
	National	MM74HC521 MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
M74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
M74HC534-1	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
M74HC540	Harris	CD74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
	Toshiba	TC74HC5353A **TC74HC540A**	**(3836)**
M74HC541	Harris	CD74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
M74HC595	Motorola	MC74HC595A	
	National	MM74HC595	
	SGS-Thomson	M74HC595	

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC595			(Cont'd)
	TI	SN74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
M74HC604	Rochester	74HC604	
	TI	SN74HC604	
M74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640-1	
	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
M74HC640-1	Harris	CD74HC640	
	Mitsubishi	M74HC640	
	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
M74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643-1	
	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
M74HC643-1	Harris	CD74HC643	
	Mitsubishi	M74HC643	
	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
M74HC645	Mitsubishi	M74HC645-1	
	TI	SN74HC645	
M74HC645-1	Mitsubishi	M74HC645	
	TI	SN74HC645	
♦ M74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
♦ M74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
♦ M74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
M74HC73	Harris	CD74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	Philips	74HC73	
	SGS-Thomson	M74HC73	
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	**(3836)**
M74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
M74HC75	Harris	CD74HC75	
	Motorola	MC74HC75	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Mitsubishi Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC75			(Cont'd)
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
M74HC76	Motorola	MC74HC76	
	National	MM74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
M74HC841-1	TI	SN74HC832	
M74HC842-1	Harris	CD74HC85	
	Mitsubishi	M74HC85	
	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
M74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
M74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
N5N482128	TI	TMS48C121	
TC55B464	Toshiba	TC55B464	
74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
82C37	Samsung	KS82C37	
82C54	Samsung	KS82C54	
82C55	Samsung	KS82C55	
82C59	Samsung	KS82C59	

Mosaic Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
MDM11000	TI	TMS4C1024	
MDM14000	NEC	µPD424100	
	TI	TMS44100	
MDM41000	NEC	µPD424400	
	TI	TMS44400	
		TMS44410	
ME8128	Dense-Pac	DPE51288	
MLM8128	TI	TMS27C010A	
		TMS27PC010A	
MSM1256	Paradigm	PDM41257	
MSM464	Paradigm	PDM41258	
MSM8128	Dense-Pac	DPS128M8	
MSM832	Dense-Pac	DPS92256	
	Paradigm	PDM41256	
MS1256	IDT	IDT7MC156	
		IDT7MP156	
MS1664	Dense-Pac	DPS1027	
	IDT	IDT7M624	
		IDT8M624	
MS3216	IDT	IDT7MP4031	
	MicronSemi	MT8S1632	
MS32256	IDT	IDT7MP4045	
		IDT7M4067	
MS3264	IDT	IDT7MP4036	
		IDT7M4017	
	MicronSemi	MT8S6432	
MS8128	Cypress	SYM1420	
		SYM1421	
	IDT	IDT8M824	
MS8256	IDT	IDT7MP4034	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MS8512	Dense-Pac	DPS512S8	
	IDT	IDT7MB4048	
		IDT7MP4008	
		IDT7M4048	
PUMA2E1000	IDT	IDT7004	
PUMA2S1000	IDT	IDT7M4003	

Mosel-Vitelic

Manufacturer Device	Replacement Source	Device	IC Master Page
MS6168	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
MS621000	Hyundai	HY628100	
MS621002	Cypress	CY7C106	
	Fujitsu	MB82B00525	
	Hitachi	HM624256	
	IDT	IDT71028	
	MicronSemi	MT5C1005	
	Motorola	MCM6228	
	Sharp	LH521002	
MS621008	Cypress	CY7C108	
		CY7C109	
	Hitachi	HM628128	
	IDT	IDT71024	
	MicronSemi	MT5C1008	
	Motorola	MCM6208	
		MCM6226	
	Sharp	LH521008	
	Sony	CXK581020	
MS62251	Cypress	CY7C197	
	Hitachi	HM6707	
	IDT	IDT71257	
	MicronSemi	MT5C2561	
	Motorola	MCM6027	
	Sharp	LH52251	
MS62251A	Cypress	CY7C197	
	Fujitsu	MB81C81A	
	MicronSemi	MT5C5257	
	Mitsubishi	M5M5257	
	Motorola	MCM6207	
	Sharp	LH52251A	
	Sony	CXK51256	
MS62252	Cypress	CY7C194	
	Hitachi	HM6208	
	IDT	IDT71258	
	MicronSemi	MT5C2564	
	Motorola	MCM6206	
	Sharp	LH52252	
MS62252A	Cypress	CY7C194	
	Fujitsu	MB81C84	
	Hitachi	HM6208	
	IDT	IDT71258	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Sharp	LH52252A	
	Sony	CXK54256	
	Toshiba	TC55464	
MS62253A	Cypress	CY7C196	
	Hitachi	HM6709	
	IDT	IDT61298	
	MicronSemi	MT5C2565	
	Sharp	LH52253A	
	Toshiba	TC55465	
MS62256	Cypress	CY7C199	
	Fujitsu	MB84256	
		MB84256A	
	GoldStar	GM76C256	
	Hitachi	HM62256	
		HM62832	
	Hyundai	HY62C256	
	IDT	IDT71256	
		IDT7125630	
	Intel	PG51256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Mitsubishi	M5M5256	
	Motorola	MCM60L256	
		MCM6206	
	NEC	UPD43256A	
	OKI	MSM51257	
	S-MOS	SRM20256	
	Samsung	KM62256	
		KM62256A	
	SGS-Thomson	MK4832	
	Sharp	LH52258	
		MK4832	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MS62256			(Cont'd)
	Sony	CXK58257	
		CXK58258	
	Toshiba	TC55256	
		TC55257	
		TC55328	
	UMC	UM62256	
MS62256A	Cypress	CY7C198	
		CY7C199	
	Fujitsu	MB8287	
	S-MOS	SRM20256	
	Samsung	KM68257	
	Sharp	LH52258	
	Sony	CXK58258	
MS62256B	Hyundai	HY62256A	
MS62256L	Sharp	LH52250AL	
MS62257	Fujitsu	MB84256	
		MB84256A	
	Hitachi	HM62256	
	Mitsubishi	M5M5256	
	NEC	UPD43256	
	OKI	MSM51257	
	Sony	CSXK58257	
	Toshiba	TC55257	
MS6264	Fujitsu	MB8464	
		MB8464A	
	Hitachi	HM6264	
	Hyundai	HY6264	
	IDT	IDT71C165	
		IDT7164	
		IDT7165	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M5165	
		M5M5178	
		M5M6165	
	Motorola	MCM6064	
		MCM6164	
	NEC	µPD4364	
		µPD4464	
	S-MOS	SRM2064	
	Samsung	KM6264A	
	SGS-Thomson	MK48H65	
		MK48H74	
	Sharp	LH5160	
		LH5164	
	Sony	CXK5863	
		CXK5864	
	Toshiba	TC5563	
		TC5564	
		TC5565	
		TC5588	
		TMM2064	
		TMM2088	
		TMM2089	
	UMC	UM6264	
MS6264-70	Krueger	6264-070	
MS6264A	Cypress	CY7C185	
		CY7C185A	
		CY7C186	
	Fujitsu	MB81C78A	
		MB8464A	
	IDT	IDT7164	
	Intel	P5164	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M178	
	Motorola	MCM6264	
	Sony	CXK5863A	
	Toshiba	TC5588	
	UMC	UM6264A	
MS6264AL	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
MS6264AL-35	Krueger	6264LP-035	
MS6264AL-45	Krueger	6264LP-045	
MS6264AL-70	Krueger	6264LP-070	
MS6264C	Hyundai	HY6264A	
MS6264L	Sharp	LH5168	
MS6265	Fujitsu	MB8464A	
	Hitachi	HM6264	
	Sharp	LH5160	
	Sony	CXK5864	
	Toshiba	TC5563A	
	UMC	UM6264A	
MS6267A	Cypress	CY7C166	
	Hitachi	HM6789	
	IDT	IDT6198	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MS6267A			(Cont'd)
	NEC	µPD4363	
	Sharp	LH5267	
	Sony	CXK5465	
	Toshiba	TC55417	
MS6287	LogicDev	L7C187	
MS6288	**Krueger**	**6288-25**	**(3663)**
		6288-35	
		6288-45	
MS6516	Fujitsu	MB8416	
	GoldStar	GM76C28	
	Harris	CDM6116	
	Hitachi	HM6116	
		HM6216	
	Hyundai	HY6116	
	IDT	IDT6116	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	NEC	µPD446	
	SGS-Thomson	MK48T02	
	Sharp	LH5116	
	Toshiba	TC5517	
		TMM2016	
		TMM2018	
	UMC	UM6116	
MS6516S	Hyundai	HY6116A	
MS7200	IDT	IDT7200	
MS7201	IDT	IDT7201	
	Sharp	LH5496	
MS7201A	MicronSemi	MT52C9005	
MS7202	Sharp	LH5497	
MS7202A	IDT	IDT7202	
	MicronSemi	MT52C9010	
MS7203	Quality Semi	QS7203	
	Sharp	LH5498	
MS7203A	MicronSemi	MT52C9020	
MS7204	MicronSemi	MT52C4K9	
	Sharp	LH5499	
MS76493	Sharp	LH5493	
MS76494	Sharp	LH5494	
MX7203	IDT	IDT7203	
V256J8	Fujitsu	MB85214	
	Hitachi	HB561008	
	MicronSemi	MT8259	
	Mitsubishi	MH25608	
	NEC	MC41256A8	
	NMB	MM2800J8	
	OKI	MSC2304-8	
	Samsung	KMM58256	
	TI	TM4256-8	
	Toshiba	THM82500	
V256J9	Fujitsu	MB85277	
	Hitachi	HB561009	
	MicronSemi	MT9259	
	Mitsubishi	MH25609	
	NEC	MC41256A9	
	NMB	MM2800J9	
	OKI	MSC2304-9	
	Samsung	KMM59256	
	TI	TM4256-9	
	Toshiba	THM92500	
V52C4256	Hitachi	HM53235	
	MicronSemi	MT42C4255	
	NEC	µPD524273	
	TI	TMS44C250	
	Toshiba	TC524256	
V52C4258	Hitachi	HM53251	
	MicronSemi	MT42C4256	
	Mitsubishi	M5M44256	
	NEC	µPD524256	
	TI	TMS44C521	
	Toshiba	TC5524258	
V52C8126	Hitachi	HM538121	
	MicronSemi	MT42C8127	
	Toshiba	TC58126A	
V52C8128	Hitachi	HM538123	
	MicronSemi	MT42C8128	
	Mitsubishi	M5M482128	
	NEC	µPD42275	
	TI	TMS48C121	
	Toshiba	TC58128	
V53C100	Fujitsu	MB81C1000A	
	GoldStar	GM71C1000	
	Hitachi	HM511001	
	Hyundai	HY51C1000	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M41000	
	Motorola	MCM511000A	
	NEC	µPD421000	
	OKI	MSM511000	
	Samsung	KM41C1000	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
Mosel-Vitelic			**(Cont'd)**
V53C100			(Cont'd)
	Siemens	HYB11000	
	TI	TMS4C1024	
	Toshiba	TC511000	
V53C100B	Fujitsu	MB81C1000A	
	GoldStar	GM71C1000	
	Hitachi	HM511001	
	Hyundai	HY51C1000	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M41000B	
	Motorola	MCM511000A	
	NEC	μPD421000	
	OKI	MSM511000	
	Samsung	KM41C1000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Toshiba	TC511000	
V53C104	Fujitsu	MB81C4256A	
	GoldStar	GM71C4256A	
	Hitachi	HM514256	
	Hyundai	HY51C4256	
	MicronSemi	MT4C256	
	Mitsubishi	M5M44256	
	Motorola	MCM514256A	
	NEC	μPD424256	
	OKI	MSM514256	
	Samsung	KM44C256A	
	Sharp	LH64256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
V53C104B	Fujitsu	MB81C4256A	
	GoldStar	GM71C4256A	
	Hitachi	HM514256	
	Hyundai	HY51C4256	
	MicronSemi	MT4C256	
	Mitsubishi	M5M44256	
	Motorola	MCM514256A	
	NEC	μPD424256	
	OKI	MSM514256	
	Samsung	KM44C256A	
	Sharp	LH64256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
V53C256	Fujitsu	MB81256	
	GoldStar	GM71256	
	Hitachi	HM51256	
	MicronSemi	MT1259	
	Mitsubishi	M5M4256	
	Motorola	MCM6257	
	NEC	μPD41256	
	NMB	AAA2801	
	OKI	MSM41256	
	Samsung	KM41256	
	Sharp	LH21256	
	Siemens	HYB41257	
	TI	TMS1259	
		TMS4256	
	Toshiba	TC51129	
		TMM41256	
V53C258	Fujitsu	MB81258	
	Hitachi	HM51258	
	NMB	AAA2800	
V53C261	Fujitsu	MB81461	
	Hitachi	HM53461	
	MicronSemi	MT42C4064	
	Mitsubishi	M5M4C264	
	NEC	μPD41264	
	TI	TMS4461	
V53C400	Fujitsu	MB814100	
	Hitachi	HM514100	
	MicronSemi	MT4C1004	
	Mitsubishi	M5M44100	
	Motorola	MCM514100	
	NEC	μPD424100	
	OKI	MSM514100	
	Samsung	KM41C4000	
	Siemens	HYB514100	
	TI	TMS44100	
	Toshiba	TC514100	
V53C404	Fujitsu	MB814400	
	Hitachi	HM514400	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M4400	
	Motorola	MCM514400	
	NEC	μPD424400	
	OKI	MSM514400	
	Samsung	KM44C1000	
	Siemens	HYB514400	
			(Continued)
V53C404			(Cont'd)
	TI	TMS44400	
	Toshiba	TC514400	
V53C464	Fujitsu	MB81464	
	Hitachi	HM50464	
	MicronSemi	MT4067	
	Mitsubishi	M5M4464	
	NEC	μPD41464	
	OKI	MSM41464	
	Samsung	KM41464	
	TI	TMS4464	
	Toshiba	TMM41464	
V53C466	Fujitsu	MB81C466	
V53C664	MicronSemi	MT4C1664	
	Toshiba	TC511664	
V53C665	MicronSemi	MT4C1665	
	Toshiba	TC511665	
V61C16	IDT	IDT6116	
V61C67	IDT	IDT6167	
V61C68	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
V62C16	SGS-Thomson	MK6116	
V62C64P-70L	Krueger	6264LP-070	
V63C308	UMC	UM61165	
V63C328	Cypress	CY7C183	
	MicronSemi	MT560816	
	TI	ACT2140	
	Toshiba	TC55188	
	UMC	UM61168	
	VLSI Tech	VT62A168	
V63C330	Cypress	CY7C184	
V63C64	IDT	IDT7164	
V63C71	Sharp	LH52252	
6130	IDT	IDT7130	
6132	IDT	IDT7132	
61342	IDT	IDT71342	
7200	AMD	AM7200	
	IDT	IDT7200	
	Sharp	LH5495	
7201A	AMD	AM7201	
	Cypress	CY7C420	
		CY7C421	
	Dallas	DS2009	
	IDT	IDT7201	
		IDT7202	
	Philips	MK4501	
	Samsung	KM75C101	
	Sharp	LH5496	
	TI	SN74ACT7201A	
7202A	AMD	AM7202	
	Cypress	CY7C424	
		CY7C425	
	Dallas	DS2010	
	IDT	IDT7201	
		IDT7202	
	Samsung	KM75C102	
	Sharp	LH5497	
	TI	SN74ACT7202	
7203	AMD	AM7203	
	Cypress	CY7C428	
		CY7C429	
	Dallas	DS2011	
	IDT	IDT7203	
	Samsung	KM75C03	
	Sharp	LH5498	
	TI	SN74ACT7202	
7203A	Dallas	DS2011	
	Samsung	KM75C03A	
7204	AMD	AM7204	
	IDT	IDT7204	
Motorola			
μA78S40	National	μA78S40	
AD562	AD	PM562	
	National	DAC1266	
AD563	National	DAC1265	
AM26LS30	AMD	AM26LS30	
	National	DS3691	
AM26LS31	AMD	AM26LS31	
	National	DS26LS31	
	Philips	AM26LS31	
AM26LS32	AMD	AM26LS32	
	National	DS26LS32	
	Philips	AM26LS32	
BS170	TeledyneC	BS170	
CA3054	Harris	CA3026	
		CA3054	
			(Continued)
CA3054			(Cont'd)
	National	μA3026	
		μA3054	
		LM3026	
		LM3054	
CA3059	Harris	CA3058	
		CA3059	**(3638)**
	National	μA742	
CA3079	Harris	CA3079	
CA3146	Harris	CA3146	
CNY17-2	Toshiba	CNY17-2	
CNY17-3	Toshiba	CNY17-3	
CNY17-4	Toshiba	CNY17-4	
DAC08	AD	ADDAC08	
		DAC08	
	Datel	DAC08	
	National	DAC08	
		DAC0800	
		DAC0801	
		DAC0802	
	Philips	DAC08	
	Raytheon	DAC08	
DS8616	Motorola	MC12016	
DS8617	Motorola	MC12017	
DS8641	National	DS8641	
H11AA1	Toshiba	TLP630	
H11AA2	Toshiba	TLP630	
H11AA3	Toshiba	TLP630	
H11A1	Toshiba	TLP631	
H11A2	Toshiba	TLP631	
H11A3	Toshiba	TLP631	
H11A4	Toshiba	TLP631	
H11A5	Toshiba	TLP631	
H11B1	Toshiba	TLP571	
H11B2	Toshiba	TLP571	
H11B3	Toshiba	TLP571	
H11C1	Toshiba	TLP541G	
H11C2	Toshiba	TLP541G	
H11C3	Toshiba	TLP541G	
H11C4	Toshiba	TLP541G	
H11C5	Toshiba	TLP541G	
H11C6	Toshiba	TLP541G	
H11G1	Toshiba	TLP371	
H11G2	Toshiba	TLP371	
H11G3	Toshiba	TLP371	
H11L1	Toshiba	H11L1	
H11L2	Toshiba	H11L3	
IDM2901	Cypress	CY7C901	
IDM2909	Cypress	CY2909	
IDM2911	Cypress	CY2911	
IL1	Toshiba	TLP631	
IL12	Toshiba	TLP631	
IL74	Toshiba	TLP631	
LF155	LinearTech	LF1055	
		LF155	
		LT1055	
LF156	LinearTech	LF156	
		LT1056	
LF347	National	LF347	
	SGS-Thomson	LF347	
	TI	LF347	
LF351	AD	OP15	
	AnalogSys	MA332	
		MA333	
	Harris	CA3140	
	National	LF351	
	SGS-Thomson	LF351	
LF353	AnalogSys	MA336	
		MA372	
	Burr-Brown	OPA2111	
	Harris	CA3240	
	National	LF353	
	SGS-Thomson	LF353	
LF355	AD	OP15	
		PM355	
	LinearTech	LF355	
	National	μA740	
		LF352	
		LF355	
		LH740	
	SGS-Thomson	LF355	
♦ LF355	Rochester	LF355	
LF356	AD	OP16	
		PM356	
	AnalogSys	MA332	
		MA333	
			(Continued)
LF356			(Cont'd)
	LinearTech	LF356	
	National	LF356	
	SGS-Thomson	LF356	
♦ LF356	Rochester	LF356	
LF357	AD	OP17	
		PM357	
	Harris	CA3130	
	LinearTech	LT1022	
	National	LF357	
	SGS-Thomson	LF357	
LF411	Harris	CA3140	
	National	LF411	
	TI	LF411	
LF412	LinearTech	LF412	
	National	LF412	
	TI	LF412	
LF441	National	LF441	
LF442	National	LF442	
LF444	National	LF444	
LLM117K	SemTech	LLM117	
LM101	AMD	AM101	
	AD	AD509	
		AD518	
		OP08	
	Harris	CA101	
		ICL101	
	LinearTech	LM101	
	Linfinity Micro	SG101	
	National	μA101	
		LM101	
	Raytheon	LM101	
	SGS-Thomson	LM101	
	TI	SN52101	
		SN52104	
LM101A	Raytheon	LM101A	
LM1035	National	LM1035	
LM107	LinearTech	LM107	
LM108	AD	PM1008	
	LinearTech	LM108	
	National	LM108	
♦ LM108	Harris	CA108	
	LinearTech	LM108	
	Linfinity Micro	SG108	
		SG1118	
		SG777	
♦ LM108	National	μA108	
		μA725	
		μA777	
		LM108	
♦ LM108	Raytheon	LM108	
	SGS-Thomson	LM108	
	TI	LM108	
		SN52108	
LM109	Linfinity Micro	SG109	
	National	μA109	
		LM109	
	TI	SN52109	
LM11	AD	OP97	
	AnalogSys	MA332	
		MA333	
		MA362	
	National	LM11	
LM111	AMD	AM107	
		AM111	
	AD	**PM111**	**(3539)**
	Harris	ICL8001	
	LinearTech	LM1008	
		LM111	
		LT111	
	Linfinity Micro	SG111	
	National	LM111	
	Philips	LM111	
	Raytheon	LM111	
	SGS-Thomson	LM111	
LM117	LinearTech	LM117	
		LT117	
	Linfinity Micro	SG117	
	National	LM117	
	Unitrode	UC117	
♦ LM117	Linfinity Micro	SG117	
	National	μA117	
		μA78	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ LM117	Unitrode	UC117	
LM123	LinearTech	LM123	
		LT1003	
		LT123	
	Linfinity Micro	SG123	
	National	LM123	
◆ LM123	Linfinity Micro	SG123	
LM124	AD	OP11	
		OP421	
	LinearTech	LT1014	
	Linfinity Micro	SG124	
	National	LM124	
	Philips	LM124	
	Raytheon	LM124	
	SGS-Thomson	LM124	
	TI	LM124	
		TL044	
LM124J	TI	LM124J	
LM137	LinearTech	LM137	
		LT1033	
		LT137	
	Linfinity Micro	SG137	
	National	LM137	
	Unitrode	UC137	
◆ LM137	Linfinity Micro	SG137	
	Unitrode	UC137	
LM139	**AD**	**PM139**	(3539)
	Harris	CA139	
	National	LM139	
	Philips	LM139	
	Raytheon	LM139	
	SGS-Thomson	LM139	
	TI	LM139	
LM139AJ	TI	LM139AJ	
LM139J	TI	LM139J	
LM140	Linfinity Micro	SG140	
	National	LM140	
LM1436	National	LM343	
LM148	AD	PM148	
	LinearTech	LT1014	
	SGS-Thomson	LM148	
LM150	LinearTech	LM150	
		LT150	
	Linfinity Micro	SG150	
	National	LM150	
	Unitrode	UC150	
◆ LM150	Linfinity Micro	SG150	
	Unitrode	UC150	
LM150K	SemTech	LLM150	
LM158	AD	OP14	
		OP221	
	LinearTech	LT1013	
	National	LM158	
	Philips	LM158	
		SE532	
	SGS-Thomson	LM158	
	TI	LM158	
		TL022	
LM158J	TI	LM158JG	
LM168	LinearTech	LT1019	
LM193	Harris	CA3290	
	National	LM193	
	Philips	LM193	
	SGS-Thomson	LM193	
	TI	LM193	
LM201	AMD	AM201	
	AD	PM1008	
	Harris	CA201	
		LM201	
	Linfinity Micro	SG201	
	National	µA201	
		LM201	
	SGS-Thomson	LM201	
	TI	LM201	
LM204	Linfinity Micro	SG204	
LM205	Linfinity Micro	SG205	
LM208	AD	PM1008	
	Linfinity Micro	SG209	
	National	LM208	
◆ LM208	Harris	CA208	
	Linfinity Micro	SG208	
		SG2118	
◆ LM208	National	µA208	
		LM208	
◆ LM208	SGS-Thomson	LM208	
LM209	Linfinity Micro	SG209	
	National	µA209	
LM211	AMD	AM211	
	AD	**PM211**	(3539)
	Linfinity Micro	SG211	
	National	LM211	
	Philips	LM211	
	SGS-Thomson	LM211	
LM217	Linfinity Micro	SG217	
	National	LM117	
	TI	LM217	
	Unitrode	UC217	
◆ LM217	Linfinity Micro	SG217	
	National	µA217	
		LM217	
◆ LM217	SGS-Thomson	LM217	
	Unitrode	UC217	
LM223	Linfinity Micro	SG223	
	National	LM123	
	SGS-Thomson	LM223	
◆ LM223	Linfinity Micro	SG223	
LM224	AD	OP421	
	Linfinity Micro	SG224	
	National	LM224	
	Philips	LM224	
	SGS-Thomson	LM224	
	TI	LM224	
LM237	Linfinity Micro	SG237	
	National	LM137	
	SGS-Thomson	LM237	
	TI	LM237	
	Unitrode	UC237	
◆ LM237	Linfinity Micro	SG237	
	Unitrode	UC237	
LM239	**AD**	**PM139**	(3539)
	Harris	CA239	
	National	LM239	
	Philips	LM239	
		LM239A	
	Samsung	LM239	
	SGS-Thomson	LM239	
	TI	LM239	
LM248	AD	OP421	
		PM248	
	National	LM248	
LM250	Linfinity Micro	SG250	
	National	LM150	
	Unitrode	UC250	
◆ LM250	Linfinity Micro	SG250	
	Unitrode	UC250	
LM258	AD	OP221	
	National	LM258	
	Philips	LM258	
		SA532	
	Samsung	LM258	
	SGS-Thomson	LM258	
	TI	LM258	
LM285	National	LM285	
LM285-1.2	GEC Plessey	REF12	
LM285-2.5	GEC Plessey	REF25	
LM2900	National	LM2900	
	TI	LM2900	
LM2901	AD	CMP04	
	Harris	CA3290	
	National	LM2901	
	Philips	LM2901	
	Samsung	LM2901	
	SGS-Thomson	LM2901	
		LM291	
	TI	LM2901	
LM2902	AD	OP421	
	National	LM2902	
	Philips	LM2902	
		SA534	
	Samsung	LM2902	
	SGS-Thomson	LM2902	
	TI	LM2902	
LM2903	Harris	CA3290	
	National	LM2903	
	Philips	LM2903	
	Samsung	LM2903	
	SGS-Thomson	LM2903	
	TI	LM2903	
LM2904	AD	OP221	
	Harris	LM2904	
	National	LM2904	
	Philips	LM2904	
	Samsung	LM2904	
	SGS-Thomson	LM2904	
	TI	LM2904	
LM293	Harris	CA3290	
	National	LM293	
	Philips	LM293	
	Samsung	LM293	
	SGS-Thomson	LM293	
	TI	LM293	
LM293A	Philips	LM293	
LM2931	National	LM2931	
LM2935	National	LM2935	
	SGS-Thomson	LM2935	
LM301	AMD	AM301	
	AD	AD301	
		AD509	
		AD518	
		PM1008	
	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	CA301	
		ICL301	
		ICL8008	
		ICL8017	
	LinearTech	LM301	
	Linfinity Micro	SG1660	
		SG301	
	National	µA301	
		LM301	
	Samsung	LM301	
	SGS-Thomson	LM301	
	TI	LM301	
	Toshiba	TA7506	
LM305	Linfinity Micro	SG305	
LM307	AD	OP77	
	AnalogSys	MA332	
		MA333	
	Burr-Brown	OPA77	
	LinearTech	LM307	
	Linfinity Micro	SG307	
	National	µA307	
		LM307	
	TI	LM307	
LM308	AD	PM1008	
	LinearTech	LM308	
		LT1008	
	National	LM308	
	SGS-Thomson	LM308	
◆ LM308	Harris	CA308	
	LinearTech	LM308	
	Linfinity Micro	SG1660	
		SG1760	
		SG308	
		SG3118	
		SG777	
◆ LM308	National	µA308	
		µA725	
		µA777	
		LM308	
◆ LM308	SGS-Thomson	LM308	
	TI	LM308	
LM309	Linfinity Micro	SG309	
	National	µA309	
		LM309	
LM309K	SemTech	LLM309K	
LM311	AMD	AM311	
	AD	**PM211**	(3539)
	LinearTech	LM311	
		LT1011	
		LT311	
	Linfinity Micro	SG311	
	National	µA311	
		LM311	
		LM734	
	Philips	LM311	
	Samsung	LM311	
	SGS-Thomson	LM311	
	TI	LM311	
LM317	LinearTech	LM317	
		LT317	
	Linfinity Micro	SG317	
	National	µA317	
		µA78	
		LM317	
	Samsung	LM317	
	SGS-Thomson	LM317	
	TI	LM317	
	Unitrode	UC317	
LM317K	SemTech	LLM317	
LM323	LinearTech	LM323	
		LT1003	
		LT323	
	Linfinity Micro	SG323	
	National	LM323	
	Samsung	LM323	
	SGS-Thomson	LM323	
LM323AK	SemTech	LAS14A05	
		LLM323AK	
LM323K	SemTech	LAS1405	
		LLM323K	
LM324	AD	OP11	
		OP421	
	AnalogSys	MA374	
	Harris	LM324	
	Linfinity Micro	SG324	
	National	LM324	
	Panasonic	AN1324	
		AN6564	
	Philips	LM324	
		LM324A	
	Raytheon	LM324	
	Samsung	LM324	
	SGS-Thomson	LM324	
		L144	
	TI	LM324	
		TL044	
	Toshiba	TA75902	
LM324A	Philips	LM324A	
LM3302	AD	CMP04	
LM337	LinearTech	LM337	
		LT1033	
		LT337	
	Linfinity Micro	SG337	
	National	LM337	
	SGS-Thomson	LM337	
	TI	LM337	
	Unitrode	UC337	
LM339	AD	PM339	
	Harris	CA339	
	National	µA775	
		LM339	
	Philips	LM339	
	Raytheon	LM339	
	SGS-Thomson	LM339	
	TI	LM339	
	Toshiba	TA75339	

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM340	Linfinity Micro	SG340	
	National	LM340	
	TI	LM340	
	Unitrode	UC7812	
LM340AK-12	SemTech	LAS15A12	
		LLM340AK-12	
LM340AK-15	SemTech	LAS15A15	
		LLM340AK-15	
LM340AK-5.0	SemTech	LAS15A05	
		LLM340AK-5	
LM340K-12	SemTech	LAS1512	
		LLM340K-12	
LM340K-15	SemTech	LAS1515	
		LLM340K-15	
LM340K-5.0	SemTech	LAS1505	
		LLM340K-5	
LM340K-8.0	SemTech	LAS1508	
		LLM340K-8	
LM3400	National	LM340	
LM347	AnalogSys	MA374	
LM348	AnalogSys	MA374	
	National	LM348	
	Samsung	LM348	
	SGS-Thomson	LM348	
	TI	LM348	
LM350	LinearTech	LM350	
		LT350	
	Linfinity Micro	SG340	
		SG350	
	National	LM350	
	Unitrode	UC350	
LM350K	SemTech	LLM350	
LM358	AD	OP221	
	AnalogSys	MA336	
		MA372	
	Harris	LM358	
	National	LM358	
	Panasonic	AN1358	
		AN6562	
	Philips	LM358	
		NE532	
	Samsung	LM358	
	SGS-Thomson	LM358	
	TI	LM358	
		TL022	
	Toshiba	TA75358	
M358A	Philips	NE532	
M385	AD	AD589	
	Astec Semi	AS1004	
	Harris	ICL8069	
	National	LM385	
M385-1.2	GEC Plessey	REF12	
M385-2.5	GEC Plessey	REF25	
M3900	National	LM3900	
	TI	LM3900	
M393	National	LM393	
	Philips	LM393	
		LM393A	
	Samsung	LM393	
	SGS-Thomson	LM393	
	TI	LM393	
	Toshiba	TA75393	
M393A	Philips	LM393A	
M833	**AD**	**SSM2139**	**(3529)**
	National	LM833	
T1022	LinearTech	LT1022	
T3527	LinearTech	LT3527	
7818	Motorola	MC7818	
AD1103	Linfinity Micro	SG5772	
AD1104	Linfinity Micro	SG5774	
AD1108	Linfinity Micro	SG6101	
CMS14400	TI	TMS44400	
		TMS44410	
CM100474	NEC	µPB100474	
CM10422	Cypress	CY10E422	
CM10474	NEC	µPB10474	
CM1423	Cypress	CY7C168	
	LogicDev	L7C168	
	Performance	P4C168	
	SGS-Thomson	IMSZ1420	
		MH41H66	
CM1423	Rochester	64C16	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MCM2016	Cypress	CY6116	
		CY6116A	
	LogicDev	L6116	
	Performance	P4C116	
MCM2018	Cypress	CY7C128	
		CY7C128A	
	IDT	IDT6116	
	LogicDev	L6116	
	Performance	P4C116	
	UMC	UM6116	
MCM2114	AMD	AM9114	
	Krueger	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
MCM2147	Performance	P4C147	
MCM2148	AMD	AM2148	
♦ MCM216	Rochester	61CD16	
MCM2167	AMD	AM2167	
	Cypress	CY7C167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
MCM2168	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
MCM2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
MCM32100	MicronSemi	MT8D132	
	TI	TM124BBK32	
MCM32128	MicronSemi	MT4S12832	
MCM32200	MicronSemi	MT16D232	
MCM32256	TI	TM256BBK32	
MCM32257	IDT	IDT7MP4045	
	MicronSemi	MT8S25632	
MCM32512	TI	TM512CBK32	
MCM3264	Cypress	CYM1831	
	IDT	IDT7MP4036	
	MicronSemi	MT8S6432	
MCM36100	Hitachi	HB56D136B	
	MicronSemi	MT12D136	
	NEC	MC421000A36	
	TI	TM124MBK35	
		TM124MBK36	
MCM36200	MicronSemi	MT24D236	
	NEC	MC422000A36	
MCM36256	Dense-Pac	VM55C104K36	
	Hitachi	HB56D25626	
		HB56D51236	
	MicronSemi	MT8C36256	
	Mitsubishi	MH25636BJ	
	NEC	MC424256A36	
	Samsung	KMM36256	
	TI	TM256KBK36	
	Toshiba	THM3625600A	
MCM36512	Dense-Pac	VM55C1042K3	
	Hitachi	HB56D51236	
	MicronSemi	MT8C36512	
	Mitsubishi	MH51236BJ	
	NEC	MC424512A36	
	Samsung	KMM36256	
		KMM36512	
	TI	TM512LBK36	
	Toshiba	THM365120A	
MCM40100	NEC	MC421000A40	
MCM40200	NEC	MC422000A40	
MCM40512	NEC	MC424512A40	
♦ MCM4116	Rochester	4116	
MCM4146	GoldStar	GM71C464	
MCM4146A	Hyundai	HY53C464	
MCM41464	**Krueger**	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
MCM4180		SSL4180	
	AT&T	ATT7C180	
	IDT	IDT6178	
	LogicDev	L7C180	
	SGS-Thomson	MK41H80	
		MK41S80	
MCM4517	Krueger	4116S	
MCM51L8128	Toshiba	TC518128	
MCM511000	Dense-Pac	V56C100	
	Fujitsu	MB81C1000	
	GoldStar	GM71C1000	
	Hitachi	HM511000	
	Intel	P21010	
	Krueger	511000-100	
		511000-70	
		511000-80	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MCM511000 (Cont'd)	MicronSemi	MT4C1024	
	Mitsubishi	M5M41000	
	NEC	µPD421000	
	OKI	MSM511000	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	TI	TMS4C1024	
	Toshiba	TC511000	
MCM511000A	Dense-Pac	V56C100	
	Fujitsu	MB81C100	
	GoldStar	GM71C1000	
	Hitachi	HM511000	
	Hyundai	HY531000	
	Intel	P21010	
	MicronSemi	MT4C1024	
	Mosel-Vitelic	V53C100	
		V53C100B	
	NEC	µPD421000	
	OKI	MSM511000B	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	TI	TMS4C1024	
	Toshiba	TC511000	
MCM511001	Fujitsu	MB81C1001	
	Hitachi	HM511001	
	Mitsubishi	M5M41001	
	NEC	µPD421001	
	Samsung	KM41C1001	
	TI	TMS4C1025	
	Toshiba	TC511001	
MCM511001A	Fujitsu	MB81C1001	
	Hitachi	HM511001	
	MicronSemi	MT4C1025	
	Mitsubishi	M5M4C1001	
	NEC	µPD421001	
	OKI	MSM511001B	
	Samsung	KM41C1001	
	TI	TMS4C1025	
	Toshiba	TC511001	
MCM511002	Fujitsu	MB81C1003	
	Hitachi	HM511002	
	MicronSemi	MT4C1026	
	Mitsubishi	M5M41002	
	NEC	µPD421002	
	OKI	MSM511002	
	Samsung	KM41C1002	
	TI	TMS4C1027	
	Toshiba	TC511002	
MCM511002A	Fujitsu	MB81C1003	
	Hitachi	HM511002	
	MicronSemi	MT4C1026	
	Mitsubishi	M5M4C1002	
	NEC	µPD421002	
	OKI	MSM511002B	
	Samsung	KM41C1002	
	TI	TMS4C1027	
	Toshiba	TC511002	
MCM514100	Fujitsu	MB814100	
	Hitachi	HM514100	
	Hyundai	HY514100	
	Intel	T21040	
	MicronSemi	MT4C1004	
		MT4C4M4X1	
	Mitsubishi	M5M44100	
	Mosel-Vitelic	V53C400	
	NEC	µPD424100	
	Samsung	KM41C4000	
	TI	TMS44100	
	Toshiba	TC514100	
MCM514102	MicronSemi	MT4C1006	
MCM514256	Fujitsu	MB81C4256	
	GoldStar	GM71C4256	
	Hitachi	HM514256	
	Intel	P21014	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
		MT4C4258	
	Mitsubishi	M5M44256	
	NEC	µPD424256	
	NMB	AAA1M104	
	OKI	MSM514256	
	Panasonic	MN41C4000	
	Samsung	KM44C256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MCM514256A	Fujitsu	MB81C4256	
	GoldStar	GM71C4256	
	Hitachi	HM514256	
	Hyundai	HY534256	
	Intel	P21014	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44C256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	NEC	µPD424256	
	NMB	AAA1M104	
	OKI	MSM514256B	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Siemens	HYB514256	
	TI	TMS44C256	
	Toshiba	TC514256	
MCM514258	Fujitsu	MB81C4258	
	Hitachi	HM514258	
	MicronSemi	MT4C4258	
	Mitsubishi	M5M44258	
	NEC	µPD424258	
	OKI	MSM514258	
	Samsung	KM44C258	
	Toshiba	TC514258	
MCM514258A	Fujitsu	MB81C4258	
	Hitachi	HM514258	
	MicronSemi	MT4C4258	
	NEC	µPD424258	
	Samsung	KM44C258	
	Toshiba	TC514258	
MCM514400	Fujitsu	MB814400	
	Hitachi	HM514400	
	Hyundai	HY514400	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M44400	
	Mosel-Vitelic	V53C404	
	NEC	µPD424400	
	Samsung	KM44C1000	
	Toshiba	TC514400	
MCM514402	MicronSemi	MT4C4003	
MCM518128	Samsung	KM658128	
	Toshiba	TC518128	
MCM518129	Toshiba	TC518129	
MCM54100	Fujitsu	MB814100	
	GoldStar	GM71C4100	
	Hitachi	HM514100	
	Intel	P21040	
	MicronSemi	MT4C1004	
	Mitsubishi	M5M44100	
	NEC	µPD424100	
	NMB	AAA4M100	
	Panasonic	MN41C4000	
	Samsung	KM41C4000	
	Siemens	HYB514100	
	TI	TMS44100	
	Toshiba	TC514100	
MCM54100A	Fujitsu	MB814100	
	GoldStar	GM71C4100A	
	Hitachi	HM514100	
	Intel	P21040	
	MicronSemi	MT4C1004	
	Mitsubishi	M5M44100	
	NEC	µPD424100	
	NMB	AAA4M100	
	Panasonic	MN41C4000	
	Siemens	HYB514100	
	TI	TMS44100	
	Toshiba	TC514100	
MCM54101	Hitachi	HM514101	
	MicronSemi	MT4C1005	
	Mitsubishi	M5M44101	
	NEC	µPD424101	
	Panasonic	MN41C4001	
	Samsung	KM41C4001	
	TI	TMS44101	
	Toshiba	TC514101	
MCM54101A	Hitachi	HM514101	
	MicronSemi	MT4C1005	
	Mitsubishi	M5M44101	
	NEC	µPD42101	
	Panasonic	MN41C4001	
	Samsung	KM41C4001	
	TI	TMS44101	
	Toshiba	TC514101	
MCM54102	MicronSemi	MT4C1006	
	Mitsubishi	M5M44102	
	NEC	µPD424102	
	Panasonic	MN41C4002	
	Samsung	KM41C4002	
	Toshiba	TC514102	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MCM54102A	MicronSemi	MT4C1006	
	Mitsubishi	M5M44102	
	NEC	µPD42102	
	Panasonic	MN41C4002	
	Samsung	KM41C400	
	Toshiba	TC514102	
MCM54400	Fujitsu	MB814400	
	GoldStar	GM71C4400	
	Hitachi	HM514400	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M44400	
	NEC	µPD424400	
	Panasonic	MN41C41000	
	Samsung	KM44C1000	
	Siemens	HYB514400	
	TI	TMS44400	
	Toshiba	TC514400	
MCM54400A	Fujitsu	MB814400	
	GoldStar	GM71C4400A	
	Hitachi	HM514400	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M44400	
	NEC	µPD42400	
	Panasonic	MN41C41000	
	Samsung	KM44C1000	
		KM44C4000	
	Siemens	HYB514400	
	TI	TMS44400	
	Toshiba	TC514400	
MCM54402	MicronSemi	MT4C4003	
	Mitsubishi	M5M44402	
	NEC	µPD424402	
	Panasonic	MN41C41002	
	Toshiba	TC514402	
MCM54402A	MicronSemi	MT4C4003	
	Mitsubishi	M5M44402	
	NEC	µPD42402	
	Panasonic	MN41C41002	
	Toshiba	TC514402	
MCM54410	Hitachi	HM514410	
	NEC	µPD424410	
	TI	TMS44410	
	Toshiba	TC514410	
MCM54800	MicronSemi	MT4C8512	
MCM60L256	Mosel-Vitelic	MS62256	
MCM60L256A	Sharp	LH52250AL	
MCM60L64	GoldStar	GM76C88	
	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
	Sharp	LH5168	
MCM60256	Cypress	CY7C198	
	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	OKI	MSM51257	
	Toshiba	TC55257	
MCM6027	Mosel-Vitelic	MS62251	
MCM6064	Cypress	CY7C186	
	Mosel-Vitelic	MS6264	
	OKI	MSM5165	
	SGS-Thomson	MK48H64	
	Toshiba	TC5563	
♦ MCM6064	Rochester	68CE64	
MCM61L64	Cypress	CY7C186	
	IDT	IDT7164	
	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
MCM6116	AMD	AM9122	
	GoldStar	GM76C28	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
MCM6147	AMD	AM2147	
	Cypress	CY7C147	
MCM6164	Cypress	CY7C186	
	GoldStar	GM76C88	
	Harris	HM65642	
	IDT	IDT7164	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	LogicDev	L7C185	
	Mosel-Vitelic	MS6264	
	Performance	P4C164	
	SGS-Thomson	IMS1630	
MCM6168	AMD	AM2168	
	Cypress	CY7C168	
	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	Performance	P4C168	
	SGS-Thomson	IMS1420	
		MK41H68	
MCM6187	LogicDev	L7C187	
MCM62L87	Cypress	CY7C187	
MCM62V06	Cypress	CY7C1399	
	MicronSemi	MT5LC2568	
MCM6205	Cypress	CY7C188	
	Fujitsu	MB82B89	
		MB8289	
		MB8299	
	IDT	IDT71B259	
		IDT71259	
	Mitsubishi	M5M5279	
	Sony	CXK59288	
	Toshiba	TC55329	
MCM6206	AT&T	ATT7C199	
	Cypress	CY7C198	
		CY7C199	
	Fujitsu	MB82B88	
		MB8288	
		MB8298	
	Hitachi	HM62832	
		HM67832	
		HM6787	
	IDT	IDT71B256	
		IDT71256	
	Krueger	62256-025	
		62256-030	
		62256-035	
	MicronSemi	MT5C2568	
	Mitsubishi	MT5C2568	
		M5M5278	
	Mosel-Vitelic	MS62252	
		MS62256	
	NEC	µPD43258	
	Paradigm	PDM41256	
		PDM51256	
	Performance	P4C1256	
	Quality Semi	QS83280	
	Sharp	LH52258	
	Sony	CXK58255	
		CXK58258	
		CXK58258A	
	Toshiba	TC55257	
		TC55328	
MCM6207	AT&T	ATT7C197	
	Cypress	CY7B197	
		CY7C197	
		CY7C1987	
	Fujitsu	MB81C81A	
		MB82B81	
	Hitachi	HM6707	
		HM6707A	
	IDT	IDT712575	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Mitsubishi	M5M5257	
		M5M5260	
	Mosel-Vitelic	MS62251A	
	NEC	µPD43251	
		µPD46251	
	Paradigm	PDM41257	
		PDM4157	
	Performance	P4C1257	
	Samsung	KM61257	
	SGS-Thomson	IMS1800	
	Sharp	LH52251	
MCM6208	AT&T	ATT7C194	
	Cypress	CY7C194	
MCM6208			(Cont'd)
	Fujitsu	MB81C84A	
		MB82B84	
	Hitachi	HM6708	
		HM6708A	
	IDT	IDT71B258	
		IDT71258	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Mosel-Vitelic	MS621008	
	Paradigm	PDM41258	
	Performance	P4C1258	
	Quality Semi	QS86440	
	Samsung	KM64257	
	SGS-Thomson	IMS1820	
	Sharp	LH52252	
		LH52252A	
	Toshiba	TC55464	
MCM6209	AT&T	ATT7C196	
	Cypress	CY7C195	
		CY7C196	
	Fujitsu	MB82B85	
	IDT	IDT61B298	
		IDT61B98	
		IDT61298	
	MicronSemi	MT5C2565	
	Mitsubishi	M5M5259	
	Paradigm	PDM41259	
		PDM41298	
	Performance	P4C1298	
	Quality Semi	QS86446	
	SGS-Thomson	IMS1824	
	Sharp	LH52253	
	Toshiba	TC55465	
MCM6226	AT&T	ATT7C109	
	Cypress	CY7C108	
		CY7C109	
	IDT	IDT71B024	
		IDT71024	
	MicronSemi	MT5C1001	
		MT5C1008	
	Mosel-Vitelic	MS621008	
	Paradigm	PDM41024	
	Sharp	LH521007	
		LH521008	
	Toshiba	TC551001	
MCM6226A	AT&T	ATT7C109	
	Cypress	CY7C109	
	IDT	IDT71024S25	
	MicronSemi	MT5C1008	
	Sharp	LH521007	
	Sony	CXK581020	
MCM6227	Cypress	CY7C107	
	Hitachi	HM621100	
		HM624256	
	MicronSemi	MT5C1001	
MCM6227A	AT&T	ATT7C107	
	Cypress	CY7C107	
	Fujitsu	MB82B001	
	Hitachi	HM621100A	
	MicronSemi	MT5C1001	
	NEC	µPD431001	
MCM6228	AT&T	ATT7C106	
	Cypress	CY7C106	
	MicronSemi	MT5C1005	
	Mosel-Vitelic	MS621002	
	Paradigm	PDM41028	
	Sharp	LH521002	
MCM6229	Cypress	CY7C106	
	IDT	IDT71028	
	MicronSemi	MT5C1001	
		MT5C1005	
MCM6229A	AT&T	ATT7C106	
	Cypress	CY7C106	
	Fujitsu	MB82B005	
	Hitachi	HM624256A	
	IDT	IDT71B028S20	
	MicronSemi	MT5C1005	
	NEC	µPD431004	
	Sharp	LH521002	
MCM62350	IDT	IDT6178	
MCM62351	IDT	IDT6178	
MCM6246	Fujitsu	MB82208	
MCM62486	Cypress	CY7B173	
	SGS-Thomson	MK62486	
MCM62486A	SGS-Thomson	MK62486	
MCM6249	Fujitsu	MB82201	
MCM62490	MicronSemi	MT56C1289	
MCM6255	GoldStar	GM71256	
MCM6256	GoldStar	GM71C256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663**
		41256-120	**(3663**
		41256-150	**(3663**
	OKI	MSM41256A	
MCM6257	Mosel-Vitelic	V53C256	
	OKI	MSM41257A	
MCM6264	AT&T	ATT7C185	
	Cypress	CY7B185	
		CY7C185	
		CY7C186	
	Fujitsu	MB81C78A	
		MB82B78	
	IDT	IDT71B64	
		IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M178	
	Mosel-Vitelic	MS6264A	
	Performance	P4C164	
	Samsung	KM68B65	
	SGS-Thomson	IMS1635	
		MK48H98	
	Sony	CXK5863	
	Toshiba	TC5563	
		TC5588	
	UMC	UM6164	
MCM6265	Fujitsu	MB81C79	
		MB82B79	
	IDT	IDT7B69	
		IDT7169	
	Mitsubishi	M5M179	
	Performance	P4C163	
	SGS-Thomson	IMS1695	
	Sony	CXK5971	
	Toshiba	TC5589	
MCM6268	AT&T	ATT7C168	
	Cypress	CY7C168	
		CY7C168A	
	Fujitsu	MB81C68	
		MB81C68A	
	Hitachi	HM6268	
	IDT	IDT6168	
	MicronSemi	MT5C1604	
	Performance	P4C168	
	Quality Semi	QS86446	
		QS8768	
	SGS-Thomson	IMS1423	
		MK41H68	
	UMC	UM6168	
MCM6269	Cypress	CY7C169	
		CY7C169A	
	Fujitsu	MB81C69	
	IDT	IDT6168	
	Performance	P4C169	
	Quality Semi	QS8769	
	SGS-Thomson	IMS1421	
		MK41H69	
MCM6270	AT&T	ATT7C170	
	Cypress	CY7C170	
		CY7C170A	
	IDT	IDT61970	
	MicronSemi	MT5C1605	
	Performance	P4C170	
MCM6287	AT&T	ATT7C187	
	Cypress	CY7C187	
	Fujitsu	MB81C71A	
		MB81271	
	Hitachi	HM6787	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	**(36**
		6287-55	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M518	
		M5M5187	
	Performance	P4C187	
	Samsung	KM6165	
	SGS-Thomson	IMS1600	
		IMS1601	
		IMS1605	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MCM6287			(Cont'd)
	Sony	CXK5164	
	Toshiba	TC5561	
		TC5562	
◆ MCM6287	Rochester	61CD64	
MCM6288	AT&T	ATT7C164	
	Cypress	CY7B164	
		CY7C164	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
		HM6788A	
	IDT	IDT6168	
		IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Mitsubishi	M5M5188	
	Performance	P4C188	
	Quality Semi	QS8888	
	Samsung	KM64B65	
		KM6465	
	SGS-Thomson	IMS1620	
		IMS1625	
	Sony	CXK5464	
		CXK5466	
	Toshiba	TC55416	
MCM6289	LogicDev	L7C164	
	Toshiba	TC55416	
MCM6290	AT&T	ATT7C166	
	Cypress	CY7B166	
		CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6789	
	IDT	IDT61B98	
		IDT6198	
		IDT7198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Mosel-Vitelic	MS6267A	
	Performance	P4C198	
	Quality Semi	QS8886	
		QS8886A	
	Samsung	KM64B66	
	SGS-Thomson	IMS1624	
		IMS1629	
	Sony	CXK5465	
		CXK5467	
	Toshiba	TC55417	
MCM6293		SSM7193	
	IDT	IDT61593	
MCM6294		SSM7194	
	IDT	IDT61594	
MCM62940	Cypress	CY7B174	
	SGS-Thomson	MK62940	
MCM62940A	Cypress	CY7B174	
	SGS-Thomson	MK62940	
MCM6295		SSM7195	
	IDT	IDT61595	
MCM62960	SGS-Thomson	MK62960	
MCM62990	MicronSemi	MT58C1616	
MCM62990A	MicronSemi	MT58C1616	
	Sony	CXK5465	
MCM62995	MicronSemi	MT5C2516	
	Performance	P4C218	
MCM62995A	MicronSemi	MT5C2516	
MCM62996	MicronSemi	MT5C2516	
MCM6504	Harris	HM6504	
MCM6508	Harris	HM6508	
MCM65116	Harris	HM65162	
MCM6514	Harris	HM6514	
MCM6518	Harris	HM6518	
MCM65308	Hughes	H1833	
		H1834	
MCM6665	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
MCM6665A	OKI	MSM3764A	
MCM67QA04	Sony	CXK77410	
MCM67W618	Sharp	LH521028	
MCM6706	Cypress	CY7B199	
		CY7C198	
		CY7C199	
	IDT	IDT71B256	
	Quality Semi	QS83280	
	Toshiba	TC55B328	
MCM6706A	Cypress	CY7B199	
	Hitachi	HM67832	
	IDT	IDT71B256	
	Quality Semi	QS83820	
MCM6708	Cypress	CY7B194	
		CY7C194	
	IDT	IDT61B928	
		IDT71B258	
	Quality Semi	QS86440	
	Toshiba	TC55B464	
MCM6708A	Cypress	CY7B194	
	Hitachi	HM6708	
	Quality Semi	QS86440	
MCM6709	Cypress	CY7B195	
		CY7C195	
	IDT	IDT61B928	
	Quality Semi	QS86446	
	Toshiba	TC55B465	
MCM6709A	Cypress	CY7B195	
	Hitachi	HM6709	
	IDT	IDT61B298	
MCM67256	TI	TMS27C256	
		TMS27PC256	
MCM67259	TI	TMS27C256	
		TMS27PC256	
MCM6726	Fujitsu	MB82008	
	MicronSemi	MT5C128K8	
MCM6729	MicronSemi	MT5C256K4	
MCM6764A	Cypress	CY7B185	
MCM6810	Krueger	6810	
MCM76	Waferscale	WS57C191	
MCM76160	Waferscale	WS57C291	
MCM76161	Waferscale	WS57C291	
◆ MCM76161	Lansdale	HL76161	
◆ MCM7620	Lansdale	HL7620	
◆ MCM7621	Lansdale	HL7621	
◆ MCM7640	Lansdale	HL7640	
◆ MCM7641	Lansdale	HL7641	
◆ MCM7642	Lansdale	HL7642	
◆ MCM7643	Lansdale	HL7643	
MCM7681	Cypress	CY7C282	
◆ MCM7681	Lansdale	HL7681	
◆ MCM7685	Lansdale	HL7685	
MCM8L1000	Intel	SM210910	
MCM81000	Dense-Pac	DPD1MX8	
	Fujitsu	MB85230	
	Hitachi	HB56A18	
	MicronSemi	MT8C8024	
		MT8D18	
	Mitsubishi	MH1M08A	
		MH1M08B0	
	NEC	MC421000A8	
	OKI	MSC2313S8	
	Samsung	KMM581000	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
	Toshiba	THM81000	
		THM81000A	
MCM81001	Fujitsu	MB85231	
	MicronSemi	MT8C8025	
	Mitsubishi	MH1M08B1	
	NEC	MC4210000B8	
MCM81002	MicronSemi	MT8C8026	
	Mitsubishi	MH1M08B2	
	NEC	MC421000C8	
MCM81430	MicronSemi	MT2D18	
MCM8256	Cypress	CYM1441	
	Hitachi	HB66A2568	
	IDT	IDT7MP4034	
MCM84000	Hitachi	HB56A48	
	MicronSemi	MT8D48	
	NEC	MC424100A8	
	TI	TM4100GBD8	
MCM84256	Hitachi	HB56D25608	
	MicronSemi	MT8C8256	
	Mitsubishi	MH25608	
	NEC	MC41256A8	
	OKI	MSC2304S8	
	TI	TM4256-8	
MCM9L1000	TI	TM024EAD9	
		TM124EAD9C	
MCM91000	Dense-Pac	DPD1MX9	
	Fujitsu	MB85235	
	Hitachi	HB56A19	
	Intel	SM21019	
MCM91000			(Cont'd)
	MicronSemi	MT8C9024	
		MT9D19	
	Mitsubishi	MH1M09A	
		MH1M09B0	
	NEC	MC421000A9	
	OKI	MSC2312S9	
	Samsung	KMM591000	
	Siemens	HYM910005	
	TI	TM024EAD9	
	Toshiba	THM91000	
		THM91000A	
MCM91000A	Siemens	HYM910005	
MCM91001	MicronSemi	MT8C9025	
	Mitsubishi	MH1M09B1	
	NEC	MC421000B9	
MCM91002	Fujitsu	MB85237	
	MicronSemi	MT8C9026	
	Mitsubishi	MH1M09B2	
	NEC	MC421000C9	
MCM91430	MicronSemi	MT3D19	
◆ MCM93L415	Rochester	93L415	
MCM93L422	Cypress	CY93L422	
	Performance	P93U422	
MCM93L422A	Performance	P93U422	
◆ MCM93L425	Rochester	93L425	
◆ MCM93415	Rochester	93415	
MCM93422	Cypress	CY93422	
	Performance	P93U422	
MCM93422A	Performance	P93U422	
MCM94000	Hitachi	HB56A49	
	MicronSemi	MT9D49	
	Mitsubishi	MH4M090J	
	NEC	MC424100A9	
	OKI	MSC2340YS9	
	TI	TM4100EBD9	
MCM94256	Fujitsu	MB85240	
	Hitachi	HB56D25609	
	MicronSemi	MT8C9256	
	Mitsubishi	MH25609	
	NEC	MC41256A9	
	OKI	MSC2304S9	
	TI	TM4256-9	
◆ MCM958	Lansdale	ML958	
MCT2	Toshiba	TLP631	
MCT2E	Toshiba	TLP631	
MC08	Linfinity Micro	SG7808	
MC10ELT22	**Synergy**	**SY10ELT22**	**(3802, 3805)**
MC10ELT23	**Synergy**	**SY10ELT23**	**(3802, 3805)**
MC10EL01	**Synergy**	**SY10EL01**	**(3805)**
MC10EL04	**Synergy**	**SY10EL04**	**(3805)**
MC10EL05	**Synergy**	**SY10EL05**	**(3805)**
MC10EL07	**Synergy**	**SY10EL07**	**(3805)**
MC10EL11	**Synergy**	**SY10EL11**	**(3805)**
MC10EL12	**Synergy**	**SY10EL12**	**(3805)**
MC10EL16	Synergy	SY10EL16	
MC10EL31	**Synergy**	**SY10EL31**	**(3805)**
MC10EL32	**Synergy**	**SY10EL32**	**(3805)**
MC10EL33	**Synergy**	**SY10EL33**	**(3805)**
MC10EL35	**Synergy**	**SY10EL35**	**(3805)**
MC10EL51	**Synergy**	**SY10EL51**	**(3805)**
MC10EL52	**Synergy**	**SY10EL52**	**(3805)**
MC10EL58	**Synergy**	**SY10EL58**	**(3805)**
MC10EL89	**Synergy**	**SY10EL89**	**(3805)**
MC10E016	**Synergy**	**SY10E016**	**(3804)**
MC10E101	**Synergy**	**SY10E101**	**(3804)**
MC10E104	**Synergy**	**SY10E104**	**(3804)**
MC10E107	**Synergy**	**SY10E107**	**(3804)**
MC10E111	**Synergy**	**SY10E111**	**(3803)**
MC10E112	**Synergy**	**SY10E112**	**(3804)**
MC10E116	**Synergy**	**SY10E116**	**(3804)**
MC10E122	**Synergy**	**SY10E122**	**(3804)**
MC10E131	**Synergy**	**SY10E131**	**(3804)**
MC10E136	**Synergy**	**SY10E136**	**(3804)**
MC10E137	**Synergy**	**SY10E137**	**(3804)**
MC10E141	**Synergy**	**SY10E141**	**(3804)**
MC10E142	**Synergy**	**SY10E142**	**(3804)**
MC10E143	**Synergy**	**SY10E143**	**(3804)**
MC10E150	**Synergy**	**SY10E150**	**(3804)**
MC10E151	**Synergy**	**SY10E151**	**(3804)**
MC10E154	**Synergy**	**SY10E154**	**(3804)**
MC10E155	**Synergy**	**SY10E155**	**(3804)**
MC10E156	Synergy	SY10E156	
MC10E157	**Synergy**	**SY10E157**	**(3804)**
MC10E158	**Synergy**	**SY10E158**	**(3804)**
MC10E160	**Synergy**	**SY10E160**	**(3804)**
MC10E163	**Synergy**	**SY10E163**	**(3804)**
MC10E164	**Synergy**	**SY10E164**	**(3804)**
MC10E1651	**Synergy**	**SY10E1651**	**(3805)**
MC10E1652	**Synergy**	**SY10E1652**	**(3805)**
MC10E166	**Synergy**	**SY10E166**	**(3804)**
MC10E167	**Synergy**	**SY10E167**	**(3804)**
MC10E171	**Synergy**	**SY10E171**	**(3804)**
MC10E175	**Synergy**	**SY10E175**	**(3804)**
MC10E193	**Synergy**	**SY10E193**	**(3804)**
MC10E195	**Synergy**	**SY10E195**	**(3803)**
MC10E196	**Synergy**	**SY10E196**	**(3803)**
MC10E197	Synergy	SY10E197	
MC10E212	**Synergy**	**SY10E212**	**(3805)**
MC10E241	**Synergy**	**SY10E241**	**(3805)**
MC10E256	**Synergy**	**SY10E256**	**(3805)**
MC10E336	**Synergy**	**SY10E336**	**(3805)**
MC10E337	**Synergy**	**SY10E337**	**(3805)**
MC10E404	**Synergy**	**SY10E404**	**(3805)**
MC10E416	**Synergy**	**SY10E416**	**(3805)**
MC10E431	**Synergy**	**SY10E431**	**(3805)**
MC10E445	**Synergy**	**SY10E445**	**(3805)**
MC10E446	**Synergy**	**SY10E446**	**(3805)**
MC10E451	**Synergy**	**SY10E451**	**(3805)**
MC10E457	**Synergy**	**SY10E457**	**(3805)**
MC10H016	ECI Semi	F10016	
MC10H600	**Synergy**	**SY10H600**	**(3802)**
MC10H602	**Synergy**	**SY10H601**	**(3802)**
MC10H603	**Synergy**	**SY10H603**	**(3802)**
MC10H641	**Synergy**	**SY10H641**	**(3803)**
MC100ELT22	**Synergy**	**SY100ELT22**	**(3802, 3805)**
MC100ELT23	**Synergy**	**SY100ELT23**	**(3802, 3805)**
MC100EL01	**Synergy**	**SY100EL01**	**(3805)**
MC100EL04	**Synergy**	**SY100EL04**	**(3805)**
MC100EL05	**Synergy**	**SY100EL05**	**(3805)**
MC100EL07	**Synergy**	**SY100EL07**	**(3805)**
MC100EL11	**Synergy**	**SY100EL11**	**(3805)**
MC100EL12	**Synergy**	**SY100EL12**	**(3805)**
MC100EL16	Synergy	SY100EL16	
MC100EL31	**Synergy**	**SY100EL31**	**(3805)**
MC100EL32	**Synergy**	**SY100EL32**	**(3805)**
MC100EL33	**Synergy**	**SY100EL33**	**(3805)**
MC100EL35	**Synergy**	**SY100EL35**	**(3805)**
MC100EL51	**Synergy**	**SY100EL51**	**(3805)**
MC100EL52	**Synergy**	**SY100EL52**	**(3805)**
MC100EL58	**Synergy**	**SY100EL58**	**(3805)**
MC100E016	**Synergy**	**SY100E016**	**(3804)**
MC100E101	**Synergy**	**SY100E101**	**(3804)**
MC100E104	**Synergy**	**SY100E104**	**(3804)**
MC100E107	**Synergy**	**SY100E107**	**(3804)**
MC100E111	**Synergy**	**SY100E111**	**(3803)**
MC100E112	**Synergy**	**SY100E112**	**(3804)**
MC100E116	**Synergy**	**SY100E116**	**(3804)**
MC100E122	**Synergy**	**SY100E122**	**(3804)**
MC100E131	**Synergy**	**SY100E131**	**(3804)**
MC100E136	**Synergy**	**SY100E136**	**(3804)**
MC100E137	**Synergy**	**SY100E137**	**(3804)**
MC100E141	**Synergy**	**SY100E141**	**(3804)**
MC100E142	**Synergy**	**SY100E142**	**(3804)**
MC100E143	**Synergy**	**SY100E143**	**(3804)**
MC100E150	Synergy	SY100E150	
MC100E151	Synergy	SY100E151	
MC100E154	Synergy	SY100E154	
MC100E155	**Synergy**	**SY100E155**	**(3804)**
MC100E156	**Synergy**	**SY100E156**	**(3804)**
MC100E157	**Synergy**	**SY100E157**	**(3804)**
MC100E158	**Synergy**	**SY100E158**	**(3804)**
MC100E160	**Synergy**	**SY100E160**	**(3804)**
MC100E163	**Synergy**	**SY100E163**	**(3804)**
MC100E164	**Synergy**	**SY100E164**	**(3804)**
MC100E166	**Synergy**	**SY100E166**	**(3804)**
MC100E167	**Synergy**	**SY100E167**	**(3804)**
MC100E171	**Synergy**	**SY100E171**	**(3804)**
MC100E175	**Synergy**	**SY100E175**	**(3804)**
MC100E193	**Synergy**	**SY100E193**	**(3804)**
MC100E195	**Synergy**	**SY100E195**	**(3803)**
MC100E196	**Synergy**	**SY100E196**	**(3803)**
MC100E197	Synergy	SY100E197	
MC100E212	**Synergy**	**SY100E212**	**(3805)**
MC100E241	**Synergy**	**SY100E241**	**(3805)**
MC100E256	**Synergy**	**SY100E256**	**(3805)**
MC100E336	**Synergy**	**SY100E336**	**(3805)**
MC100E337	**Synergy**	**SY100E337**	**(3805)**
MC100E404	**Synergy**	**SY100E404**	**(3805)**
MC100E416	**Synergy**	**SY100E416**	**(3805)**
MC100E431	**Synergy**	**SY100E431**	**(3805)**
MC100E445	**Synergy**	**SY100E445**	**(3805)**
MC100E446	**Synergy**	**SY100E446**	**(3805)**
MC100E451	**Synergy**	**SY100E451**	**(3805)**
MC100E457	**Synergy**	**SY100E457**	**(3805)**
MC100H600	**Synergy**	**SY100H600**	**(3802)**
MC100H601	**Synergy**	**SY100H601**	**(3802)**
MC100H602	**Synergy**	**SY100H602**	**(3802)**
MC100H603	**Synergy**	**SY100H603**	**(3802)**
MC100H641	**Synergy**	**SY100H641**	**(3803)**

(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC10131	GEC Plessey	SP9131	
♦ MC10318	Lansdale	ML10318	
MC10319	Exar	XR082	
	GEC Plessey	SP973	
	NEC	μPD6950	
	SGS-Thomson	TDC1048	
MC10687	Lansdale	ML10687	
MC12009	GEC Plessey	SP8740	
MC12011	GEC Plessey	SP8743	
MC12012	GEC Plessey	SP8703	
MC12013	GEC Plessey	SP8647	
MC12015	GEC Plessey	SP8797	
	National	DS8615	
MC12016	GEC Plessey	SP8793	
	Motorola	DS8616	
MC12017	GEC Plessey	SP8718	
	Motorola	DS8617	
MC12018	GEC Plessey	SP8703	
		SP8704	
MC12019	GEC Plessey	SP8789	
MC12022	GEC Plessey	SP8704	
		SP8705	
	Motorola	MC12031	
		MC12052	
MC12031	Motorola	MC12022	
MC12052	Motorola	MC12022	
MC1217	Lansdale	ML1217	
MC1226	Lansdale	ML1226	
♦ MC1239	Lansdale	ML1239	
MC12511	GEC Plessey	SP8743	
MC12513	GEC Plessey	SP8647	
♦ MC12560	Lansdale	ML12560	
MC13001	Harris	CA3210	
MC13002	Harris	CA3223	
MC13010	Allegro Micro	ULN2264	
	Harris	CA3044	
		CA3064	
		CA3139	
		CA7607	
		CA7611	
		LM1822	
	National	μA3064	
		LM1822	
		LM3064	
	SGS-Thomson	TBA1440	
		TBA440	
		TDA2540	
		TDA2544	
		TDA4420	
		TDA5600	
	TI	SN76564	
		SN76565	
		SN76665	
MC13020	National	LM1981	
MC1350	National	μA757	
		LM703	
	TI	SN76600	
MC1374	National	LM1889	
	SGS-Thomson	TD62479	
MC1391	Harris	CA1391	
	National	μA1391	
		LM1391	
	SGS-Thomson	TBA920	
	TI	SN76591	
MC1394	Harris	CA1394	
MC1400	**AD**	**REF01**	(3536)
		REF02	
	GEC Plessey	REF25	
	LinearTech	LT1019	
MC1400-10	GEC Plessey	REF100	
MC1400-5	GEC Plessey	REF50	
MC1400-6	GEC Plessey	ZNREF062	
MC14001	GoldStar	GD4001	
MC14002	GoldStar	GD4002	
MC14006	GoldStar	GD4006	
♦ MC14006B	Lansdale	ML14006B	
MC14007	GoldStar	GD4007	
MC14008	GoldStar	GD4008	
♦ MC14008	Rochester	54C83	
♦ MC14008B	Lansdale	ML14008B	
MC14011	GoldStar	GD4011	
MC14012	GoldStar	GD4012	
MC14013	GoldStar	GD4013	
MC14014	GoldStar	GD4014	
MC14015	GoldStar	GD4015	
MC14016	GoldStar	GD4016	
	Unitrode	PIC7516	
MC14017	GoldStar	GD4017	
MC14018	GoldStar	GD4018	
MC1402	GEC Plessey	TAB1042	
MC14020	GoldStar	GD4020	
MC14021	GoldStar	GD4021	
MC14022	GoldStar	GD4022	
♦ MC14022B	Lansdale	ML14022B	
MC14023	GoldStar	GD4023	
MC14024	GoldStar	GD4024	
MC14025	GoldStar	GD4025	
MC14027	GoldStar	GD4027	
MC14028	GoldStar	GD4028	
♦ MC14028	Rochester	54C42	
MC1403	AD	AD1403	
		AD580	
		REF03	(3536)
		REF43	(3536)
	GEC Plessey	REF25	
	Linfinity Micro	SG2503	
		SG3503	
MC14034	GoldStar	GD4034	
♦ MC14034B	Lansdale	ML14034B	
MC14035	GoldStar	GD4035	
♦ MC14035B	Lansdale	ML14035B	
MC1404	**AD**	**REF01**	(3536)
		REF02	
	LinearTech	REF01	
		REF02	
	Maxim	REF01	
		REF02	
	MicroPwr	MP5531	
		MP5532	
	Raytheon	REF-02	
		REF01	
		REF02	
	TeledyneC	REF01	
		REF02	
MC1404-10	GEC Plessey	REF100	
MC1404-5	GEC Plessey	REF50	
MC1404-6	GEC Plessey	ZNREF062	
MC14040	GoldStar	GD4040	
MC14042	GoldStar	GD4042	
MC14043	GoldStar	GD4043	
MC14044	GoldStar	GD4044	
MC14046	GoldStar	GD4046	
MC14049	GoldStar	GD4049	
MC1405	TI	TL500	
		TL501	
		TL505	
♦ MC1405	Rochester	RC1405	
MC14050	GoldStar	GD4050	
MC14051	GoldStar	GD4051	
MC14052	GoldStar	GD4052	
MC14053	GoldStar	GD4053	
MC1406	AD	DAC01	
	GEC Plessey	ZN436	
MC14066	GoldStar	GD4066	
	Raytheon	TL4066	
	Unitrode	PIC7516	
MC14068	GoldStar	GD4068	
♦ MC14068B	Lansdale	ML14068B	
MC14069	GoldStar	GD4069	
MC14070	GoldStar	GD4070	
MC14071	GoldStar	GD4071	
MC14075	GoldStar	GD4075	
MC14076	GoldStar	GD4076	
MC14077	GoldStar	GD4077	
MC14078	GoldStar	GD4078	
♦ MC14078B	Lansdale	ML14078B	
MC1408	AD	AD1408	
		DAC1408	
	GEC Plessey	ZN429	
	Motorola	MC1408	
	National	μA0802	
		DAC0806	
		DAC0807	
		DAC0808	
		LM1408	
	SGS-Thomson	DAC0806	
		DAC0807	
MC1408L8	Raytheon	DAC08	
MC14081	GoldStar	GD4081	
MC14093	GoldStar	GD4093	
MC1411	Allegro Micro	ULN2001	
	Linfinity Micro	SG2001	
	National	μA9665	
		DS2001	
	SGS-Thomson	L201	
		TD62001	
	TI	SN75466	
MC1412	Linfinity Micro	SG2002	
	National	μA9666	
		DS2002	
	SGS-Thomson	L202	
		TD62002	
	TI	SN75467	
MC1413	Allegro Micro	ULN2003	
		ULQ2003	
	Linfinity Micro	SG2003	
	National	μA9667	
		DS2003	
	SGS-Thomson	L203	
		TD62003	
	TI	SN75468	
MC1414	National	LM1414	
♦ MC1414	Rochester	LM1414	
MC1416	Allegro Micro	ULN2004	
		ULQ2004	
	Linfinity Micro	SG2004	
	National	μA9668	
		DS2004	
MC14160	GoldStar	GD40160	
MC14161	GoldStar	GD40161	
♦ MC14162B	Lansdale	ML14162B	
MC14163	GoldStar	GD40163	
♦ MC14163B	Lansdale	ML14163B	
MC1417	Allegro Micro	UDN2580	
	Motorola	UDN2580	
MC14174	GoldStar	GD40174	
MC14175	GoldStar	GD40175	
MC14194	GoldStar	GD40194	
♦ MC14194B	Lansdale	ML14194B	
MC142100	Harris	CD22100	
MC142101	Harris	CD22101	
MC1427	TI	SN75475	
MC1436	AD	OP01	
	Linfinity Micro	SG1436	
	National	LH0004	
		LM343	
MC1437	National	LH2301	
	Raytheon	RC1437	
MC1439	Allegro Micro	ULN2139	
	Philips	NE531	
MC14410	GEC Plessey	MV5089	
MC14411	SMC	COM8126	
		COM8146	
MC14412	Exar	XR14412	
MC14433	GEC Plessey	ZN450	
		ZN451	
	TI	ICL7135	
		TLC7135	
		TL500	
		TL501	
		TL503	
MC14442	TI	TLC532	
		TLC533	
MC14443	TI	TL507	
MC14444	National	ADC0830	
	TI	TLC546	
MC14447	TI	TL507	
MC1445	TI	MC1445	
MC14503	GoldStar	GD40097	
MC145040	National	ADC0811	
	TI	TLC540	
		TLC541	
MC145041	GEC Plessey	ZN448	
	National	ADC0811	
	TI	TLC542	
MC14506	LinearTech	LT1039	
	Samsung	KS706	
♦ MC14506A	Lansdale	ML14506A	
♦ MC14508A	Lansdale	ML14508A	
MC14510	GoldStar	GD4510	
♦ MC14510B	Lansdale	ML14510B	
MC145106	IMI	IMI45106	
MC14511	GoldStar	GD4511	
♦ MC14511	Rochester	14511	
MC14512	GoldStar	GD4512	
MC14514	GoldStar	GD4514	
♦ MC14514B	Lansdale	ML14514B	
MC145145	GEC Plessey	NJ8820	
	IMI	IMI145145	
MC145146	GEC Plessey	NJ8820	
	IMI	IMI145146	
♦ MC14515B	Lansdale	ML14515B	
MC145151	IMI	IMI145151	
MC145152	IMI	IMI145152	
MC145155	GEC Plessey	NJ8821	
	IMI	IMI145155	
MC145156	GEC Plessey	NJ8821	
		NJ8822	
	IMI	IMI145156	
MC145157	GEC Plessey	NJ8821	
	IMI	IMI145157	
MC145158	GEC Plessey	NJ8821	
	IMI	IMI145158	
MC145159	GEC Plessey	NJ8821	
MC14516	GoldStar	GD4516	
♦ MC14516B	Lansdale	ML14516B	
MC14518	GoldStar	GD4518	
MC14520	GoldStar	GD4520	
♦ MC14520	Rochester	14520	
♦ MC14521B	Lansdale	ML14521B	
MC14522	GoldStar	GD4522	
♦ MC14522B	Lansdale	ML14522B	
♦ MC14524B	Lansdale	ML14524B	
MC14526	GoldStar	GD4526	
♦ MC14526B	Lansdale	ML14526B	
MC14528	GoldStar	GD4528	
♦ MC14529B	Lansdale	ML14529B	
MC14531	GoldStar	GD4531	
♦ MC14531B	Lansdale	ML14531B	
MC14532	GoldStar	GD4532	
MC14539	GoldStar	GD4539	
MC1454	Harris	CA3020	
MC145410	UMC	UM91261	
MC145436	Harris	CD22204	
♦ MC14549B	Lansdale	ML14549B	
MC1455	Linfinity Micro	SG555	
	National	μA555	
		LM2905	
		LM322	
		LM3905	
		LM555	
	Philips	NE555	
	Samsung	NE555	
	SGS-Thomson	LM555	
		NE555	
	TI	μA2240	
	Toshiba	TA7555	
♦ MC14551B	Lansdale	ML14551B	
MC14553	GoldStar	GD4553	
♦ MC14553B	Lansdale	ML14553B	
MC14555	GoldStar	GD4555	
MC14556	GoldStar	GD4556	
♦ MC14556B	Lansdale	ML14556B	
♦ MC14559B	Lansdale	ML14559B	
MC1456	Allegro Micro	ULN2156	
		ULN2157	
	AD	OP01	
	AnalogSys	MA332	
		MA333	
	Linfinity Micro	SG1456	
	National	LM212	
		LM312	
	Philips	NE537	
		N5556	
	Raytheon	RC1556	
♦ MC14560B	Lansdale	ML14560B	
♦ MC14561B	Lansdale	ML14561B	
♦ MC14562B	Lansdale	ML14562B	
♦ MC14568B	Lansdale	ML14568B	
♦ MC14573	Holt	HI8573	
♦ MC14574	Holt	HI8574	
MC14575	Raytheon	TL14575	
♦ MC14575	Holt	HI8575	
MC1458	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Harris	CA1458	
	Linfinity Micro	SG1458	
	National	μA1458	
		LM1458	
	NEC	μPC251	
	Panasonic	AN1458	
		AN6572	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC1458			(Cont'd)
	Philips	MC1458	
		N5558	
	Raytheon	RC1458	
	Samsung	MC1458	
	SGS-Thomson	MC1458	
	TI	MC1458	
	Toshiba	TA75458	
MC14582	GoldStar	GD4582	
MC14584	GoldStar	GD40014	
MC14585	GoldStar	GD40085	
MC1463	Rochester	RC1463	
MC1466	Rochester	RC1466	
MC1468	Linfinity Micro	SG1468	
		SG2501	
		SG2502	
		SG3501	
		SG3502	
		SG4194	
		SG4501	
		SG501	
	National	LM325	
		LM326	
		LM328	
	Raytheon	RC4194	
		RC4195	
	Toshiba	TA7179	
MC146818B	Dallas	DS1285	
MC1469	Rochester	RC1469	
MC1472	National	DS3612	
		DS3632	
	SGS-Thomson	TD62477	
MC1473	Allegro Micro	UDN5713	
MC1488	National	µA9616	
		DS1488	
	Philips	N8T15	
	Raytheon	RC1488	
	SGS-Thomson	MC1488	
	TI	SN75150	
		SN75188	
MC1489	Linfinity Micro	SG1489	
	National	µA9627	
		DM7822	
		DM8822	
		DS1489	
		DS9627	
		LM1489	
	Philips	N8T16	
	Raytheon	RC1489	
	SGS-Thomson	MC1489	
	TI	SN75154	
		SN75189	
MC1489A	National	DS1489A	
MC1494	Linfinity Micro	SG2402	
		SG3402	
	Raytheon	RC4200	
		RC4200A	
MC1495	Linfinity Micro	SG1495	
	Philips	N5595	
MC1496	Linfinity Micro	SG1496	
	National	µA796	
		LM1496	
	Philips	MC1496	
		N5596	
	TI	SN76514	
MC1500	**AD**	**REF01**	**(3536)**
		REF02	
MC1500-10	GEC Plessey	ZNREF100	
MC1500-5	GEC Plessey	ZNREF050	
MC1500-6	GEC Plessey	ZNREF062	
MC1503	AD	AD580	
	Linfinity Micro	SG1503	
MC1503	Lansdale	ML1503	
MC1505	Rochester	RC1505	
MC1506	AD	DAC01	
	GEC Plessey	ZN436	
MC1506	Lansdale	ML1506	
MC1508	AD	AD1508	
		DAC1508	
MC1508			(Cont'd)
	GEC Plessey	ZN429	
	National	µA0802	
		DAC0808	
	Philips	MC1508-8	
	SGS-Thomson	DAC0808	
♦ MC1510	Lansdale	ML1510	
♦ MC1512	Lansdale	ML1512	
♦ MC1514	Lansdale	ML1514	
	Rochester	TL514	
♦ MC1520	Lansdale	ML1520	
♦ MC1530	Lansdale	ML1530	
♦ MC1531	Lansdale	ML1531	
♦ MC1533	Lansdale	ML1533	
♦ MC1535	Lansdale	ML1535	
MC1536	AD	OP01	
	Linfinity Micro	SG1536	
	National	LH0004	
		LM143	
		LM243	
MC1537	National	LH2101	
		LH2201	
	Raytheon	LH2101	
		RM1537	
♦ MC1538	Lansdale	ML1538	
MC1539	Allegro Micro	ULS2139	
	Philips	SE531	
♦ MC15482	Lansdale	ML15482	
♦ MC1550	Rochester	RC1550	
♦ MC1552	Lansdale	ML1552	
♦ MC1553	Lansdale	ML1553	
MC1554	Harris	CA3020	
	Philips	NE540	
MC1555U	TI	SE555JG	
MC1556	AMD	AM725	
	Allegro Micro	ULS2156	
	AD	OP01	
	Harris	CMP01	
	National	LM112	
		LM122	
		LM222	
	Philips	SE533	
		SE537	
MC1558	Allegro Micro	ULS2157	
	AD	OP14	
	Harris	CA1558	
	LinearTech	LT1013	
	Linfinity Micro	SG1501	
		SG1558	
	National	µA1458	
		µA1558	
		LM1558	
	Philips	MC1558	
	Raytheon	RC1558	
	SGS-Thomson	MC1558	
	TI	MC1558	
♦ MC1561	Lansdale	ML1561	
♦ MC1563	Rochester	RC1563	
♦ MC1566	Rochester	RC1566	
MC1568	Linfinity Micro	SG1501	
		SG1502	
		SG1568	
		SG4194	
	National	LM125	
		LM126	
		LM128	
		LM225	
		LM226	
		LM228	
	Raytheon	RC4195	
		RM4194	
		RM4195	
♦ MC1569	Rochester	RC1569	
MC1590	GEC Plessey	SL6140	
	Harris	CA3011	
		CA3012	
		CA3021	
		CA3022	
		CA3023	
		CA3076	
	National	LM171	
		LM271	
		LM371	
♦ MC1590	Lansdale	ML1590	
MC1594	Harris	CA3091	
		ICL8013	
	Linfinity Micro	SG1402	
MC1595	AD	AD530	
		AD531	
		AD532	
	Burr-Brown	**MPY600**	**(3466)**
	Linfinity Micro	SG1595	
MC1596	**Burr-Brown**	**MPY600**	**(3466)**
	Linfinity Micro	SG1596	
	National	µA796	
		LM1596	
MC1648	GEC Plessey	SP1648	
MC1658	GEC Plessey	SP1658	
MC1660	GEC Plessey	SP1660	
♦ MC1668	Lansdale	ML1668	
♦ MC1674	Lansdale	ML1674	
MC1699	GEC Plessey	SP8610	
♦ MC1700	Lansdale	ML1710	
MC1709	AD	OP06	
	Harris	CA3008	
		CA3010	
		CA3015	
		CA3016	
		CA3029	
		CA3030	
		CA3037	
		CA3038	
		ICL8007	
	National	µA709	
		LM709	
	Philips	N5709	
	Raytheon	RC709	
		RM709	
	TI	µA709	
	Toshiba	TA7502	
MC1710	National	LM710	
MC1723	AMD	AM723	
	Fujitsu	MB3752	
	Harris	CA0723	
		CA3085	
		CA723	
		LM723	
	Linfinity Micro	SG100	
		SG200	
		SG300	
		SG723	
	National	µA723	
		LM723	
	Philips	µA723	
		NE550	
		N5723	
		SE550	
	Raytheon	RC723	
		RM723	
	Samsung	LM723	
	SGS-Thomson	LM723	
	TI	µA723	
MC1733	Philips	µA733	
	TI	µA733	
♦ MC1733	AMD	AM733	
	Harris	CA3031	
		CA3032	
♦ MC1733	Linfinity Micro	SG733	
	National	µA702	
		µA733	
		LM723	
♦ MC1733	Philips	µA733	
		NE501	
		N5723	
		SE501	
♦ MC1733	Raytheon	RC702	
		RC733	
		RM702	
		RM733	
♦ MC1733	TI	µA733	
MC1741	AMD	AM107	
		AM111	
		AM207	
		AM211	
		AM741	
	Allegro Micro	ULN2151	
		ULN2741	
		ULS2151	
MC1741			(Cont'd)
	AD	AD741	
		OP02	
		OP07	
	AnalogSys	MA332	
		MA333	
	Burr-Brown	OPA177	
	Harris	CA107	
		CA207	
		CA3056	
		CA741	
		ICL741	
		LM741	
	LinearTech	LM107	
		LM118	
		LM318	
	Linfinity Micro	SG107	
		SG118	
		SG207	
		SG217	
		SG218	
		SG318	
		SG741	
	National	µA107	
		µA207	
		µA715	
		µA741	
		µA772	
		µA799	
		LH101	
		LH201	
		LM107	
		LM118	
		LM207	
		LM218	
		LM318	
		LM741	
	Philips	µA741	
		µA741C	
		N5741	
	Raytheon	RC4131	
		RC741	
		RM741	
	Samsung	LM741	
	SGS-Thomson	µA741	
		LM118	
		LM218	
		LM318	
		LM741	
	TI	µA741	
		LM118	
		LM218	
		LM318	
		SN52107	
	Toshiba	TA7504	
MC1747	AMD	AM747	
	Allegro Micro	ULN2747	
	AD	OP04	
		OP221	
	Harris	CA747	
	Linfinity Micro	SG747	
	National	µA747	
		LM747	
	Philips	µA747	
		µA747C	
		N5747	
		N5748	
	Raytheon	RC747	
		RM747	
	TI	µA747	
MC1748	AMD	AM748	
	AD	OP06	
	AnalogSys	MA332	
		MA333	
	Harris	CA748	
		LM748	
	Linfinity Micro	SG201	
		SG748	
	National	µA748	
		LM748	
	Philips	N5748	
	Raytheon	RC748	
		RM748	
	SGS-Thomson	µA748	
		LM748	
	TI	µA748	
♦ MC17482	Lansdale	ML17482	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC1776	AD	AD505	
		AD506	
		OP08	
		OP22	
	GEC Plessey	SL562	
	Harris	CA3078	
		CA6078	
		CA6741	
		ICL7611	
	Linfinity Micro	SG1250	
		SG2250	
		SG3250	
		SG4250	
	National	µA776	
		LH000	
		LH042	
		LM4250	
	Philips	NE533	
	SGS-Thomson	µA776	
		µA778	
♦ MC1800	Lansdale	ML1800	
♦ MC1801	Lansdale	ML1801	
♦ MC1802	Lansdale	ML1802	
♦ MC1803	Lansdale	ML1803	
♦ MC1804	Lansdale	ML1804	
♦ MC1805	Lansdale	ML1805	
♦ MC1806	Lansdale	ML1806	
♦ MC1807	Lansdale	ML1807	
♦ MC1808	Lansdale	ML1808	
♦ MC1809	Lansdale	ML1809	
♦ MC1810	Lansdale	ML1810	
♦ MC1811	Lansdale	ML1811	
♦ MC1812	Lansdale	ML1812	
♦ MC1813	Lansdale	ML1813	
♦ MC1814	Lansdale	ML1814	
♦ MC1815	Lansdale	ML1815	
♦ MC1816	Lansdale	ML1816	
♦ MC1818	Lansdale	ML1818	
♦ MC1900	Lansdale	ML1900	
♦ MC1901	Lansdale	ML1901	
♦ MC1902	Lansdale	ML1902	
♦ MC1903	Lansdale	ML1903	
♦ MC1904	Lansdale	ML1904	
♦ MC1905	Lansdale	ML1905	
♦ MC1906	Lansdale	ML1906	
♦ MC1907	Lansdale	ML1907	
♦ MC1908	Lansdale	ML1908	
♦ MC1909	Lansdale	ML1909	
♦ MC1910	Lansdale	ML1910	
♦ MC1911	Lansdale	ML1911	
♦ MC1912	Lansdale	ML1912	
♦ MC1913	Lansdale	ML1913	
♦ MC1914	Lansdale	ML1914	
♦ MC1915	Lansdale	ML1915	
♦ MC1916	Lansdale	ML1916	
♦ MC1917	Lansdale	ML1917	
♦ MC1918	Lansdale	ML1918	
♦ MC2000	Lansdale	ML2000	
	Rochester	SNG212	
♦ MC2001	Lansdale	ML2001	
	Rochester	SNG222	
♦ MC2002	Lansdale	ML2002	
	Rochester	SNG232	
♦ MC2003	Lansdale	ML2003	
	Rochester	SNG242	
♦ MC2004	Lansdale	ML2004	
	Rochester	SNG252	
♦ MC2005	Lansdale	ML2005	
♦ MC2006	Lansdale	ML2006	
	Rochester	SNG262	
♦ MC2007	Lansdale	ML2007	
	Rochester	SNG322	
♦ MC2009	Lansdale	ML2009	
♦ MC2011	Lansdale	ML2011	
	Rochester	SNG202	
♦ MC2012	Lansdale	ML2012	
	Rochester	SNG302	
♦ MC2013	Lansdale	ML2013	
	Rochester	SNG312	
♦ MC2016	Lansdale	ML2016	
	Rochester	SNG382	
♦ MC2018	Lansdale	ML2018	
♦ MC2023	Lansdale	ML2023	
	Rochester	SNF122	
♦ MC2024	Lansdale	ML2024	
	Rochester	SNF132	
♦ MC2025	Lansdale	ML2025	
♦ MC2026	Lansdale	ML2026	
♦ MC2028	Lansdale	ML2028	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ MC2050	Lansdale	ML2050	
♦ MC2051	Lansdale	ML2051	
	Rochester	SNG223	
♦ MC2052	Lansdale	ML2052	
	Rochester	SNG233	
♦ MC2053	Lansdale	ML2053	
	Rochester	SNG243	
♦ MC2054	Lansdale	ML2054	
	Rochester	SNG253	
♦ MC2055	Lansdale	ML2055	
	Rochester	SNG263	
♦ MC2056	Lansdale	ML2056	
	Rochester	SNG273	
♦ MC2057	Lansdale	ML2057	
	Rochester	SNG323	
♦ MC2059	Lansdale	ML2059	
♦ MC2061	Lansdale	ML2061	
	Rochester	SNG203	
♦ MC2062	Lansdale	ML2062	
	Rochester	SNG303	
♦ MC2063	Lansdale	ML2063	
	Rochester	SNG313	
♦ MC2065	Lansdale	ML2065	
♦ MC2066	Lansdale	ML2066	
	Rochester	SNG383	
♦ MC2068	Lansdale	ML2068	
♦ MC2073	Lansdale	ML2073	
	Rochester	SNF123	
♦ MC2074	Lansdale	ML2074	
♦ MC2075	Lansdale	ML2075	
♦ MC2076	Lansdale	ML2076	
♦ MC2078	Lansdale	ML2078	
♦ MC2100	Lansdale	ML2100	
	Rochester	SNG210	
♦ MC2101	Lansdale	ML2101	
	Rochester	SNG220	
♦ MC2102	Lansdale	ML2102	
	Rochester	SNG230	
♦ MC2103	Lansdale	ML2103	
	Rochester	SNG240	
♦ MC2104	Lansdale	ML2104	
	Rochester	SNG250	
♦ MC2105	Lansdale	ML2105	
	Rochester	SNG260	
♦ MC2106	Lansdale	ML2106	
	Rochester	SNG270	
♦ MC2107	Lansdale	ML2107	
	Rochester	SNG320	
♦ MC2109	Lansdale	ML2109	
♦ MC2111	Lansdale	ML2111	
	Rochester	SNG200	
♦ MC2112	Lansdale	ML2112	
	Rochester	SNG300	
♦ MC2113	Lansdale	ML2113	
	Rochester	SNG310	
♦ MC2116	Lansdale	ML2116	
	Rochester	SNG380	
♦ MC2118	Lansdale	ML2118	
♦ MC2123	Lansdale	ML2123	
	Rochester	SNF120	
♦ MC2124	Lansdale	ML2124	
	Rochester	SNF130	
♦ MC2125	Lansdale	ML2125	
♦ MC2126	Lansdale	ML2126	
♦ MC2128	Lansdale	ML2128	
♦ MC2150	Lansdale	ML2150	
	Rochester	SNG211	
♦ MC2151	Lansdale	ML2151	
	Rochester	SNG221	
♦ MC2152	Lansdale	ML2152	
	Rochester	SNG231	
♦ MC2153	Lansdale	ML2153	
	Rochester	SNG241	
♦ MC2154	Lansdale	ML2154	
	Rochester	SNG251	
♦ MC2155	Lansdale	ML2155	
	Rochester	SNF261	
		SNG261	
♦ MC2156	Lansdale	ML2156	
	Rochester	SNG271	
♦ MC2157	Lansdale	ML2157	
	Rochester	SNG321	
♦ MC2159	Lansdale	ML2159	
♦ MC2161	Lansdale	ML2161	
	Rochester	SNG201	
♦ MC2162	Lansdale	ML2162	
	Rochester	SNG301	
♦ MC2163	Lansdale	ML2163	
	Rochester	SNG311	
♦ MC2165	Lansdale	ML2165	
♦ MC2166	Lansdale	ML2166	
	Rochester	SNG381	
♦ MC2168	Lansdale	ML2168	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ MC2173	Lansdale	ML2173	
	Rochester	SNF121	
♦ MC2174	Lansdale	ML2174	
	Rochester	SNF131	
♦ MC2175	Lansdale	ML2175	
♦ MC2176	Lansdale	ML2176	
♦ MC2178	Lansdale	ML2178	
♦ MC25482	Lansdale	ML25482	
MC26LS31	AMD	AM26LS31	
MC26LS32	AMD	AM26LS32	
MC26S10	AMD	AM26S10	
	National	µA9640	
		DS26S10	
MC2661	Philips	SCN2661	
MC2672B3P	Philips	SCN2672C4	
MC2672B4P	Philips	SCN2672C4	
MC2674B3P	Philips	SCN2674BC4	
MC2674B4P	Philips	SCN2674BC4	
MC2681	Exar	XR88C681	
	Philips	SCN2681	
♦ MC27482	Lansdale	ML27482	
MC2902	AnalogSys	MA374	
♦ MC3000	**Lansdale**	**ML3000**	(3667)
	Rochester	RC3000	
♦ MC3001	**Lansdale**	**ML3001**	(3667)
	Rochester	RC3001	
♦ MC3002	**Lansdale**	**ML3002**	(3667)
♦ MC3003	Lansdale	ML3003	
♦ MC3004	**Lansdale**	**ML3004**	(3667)
	Rochester	RC3004	
♦ MC3005	**Lansdale**	**ML3005**	(3667)
	Rochester	RC3005	
♦ MC3006	**Lansdale**	**ML3006**	(3667)
	Rochester	RC3006	
♦ MC3007	**Lansdale**	**ML3007**	(3667)
♦ MC3008	**Lansdale**	**ML3008**	(3667)
	Rochester	RC3008	
♦ MC3009	**Lansdale**	**ML3009**	(3667)
	Rochester	RC3009	
♦ MC3010	**Lansdale**	**ML3010**	(3667)
	Rochester	RC3010	
♦ MC3011	**Lansdale**	**ML3011**	(3667)
	Rochester	RC3011	
♦ MC3012	**Lansdale**	**ML3012**	(3667)
	Rochester	RC3012	
♦ MC3015	**Lansdale**	**ML3015**	(3667)
	Rochester	RC3015	
♦ MC3016	**Lansdale**	**ML3016**	(3667)
	Rochester	RC3016	
♦ MC3018	Lansdale	ML3018	
	Rochester	RC3018	
♦ MC3019	Lansdale	ML3019	
	Rochester	RC3019	
♦ MC3020	**Lansdale**	**ML3020**	(3667)
	Rochester	RC3020	
♦ MC3021	**Lansdale**	**ML3021**	(3667)
♦ MC3022	**Lansdale**	**ML3022**	(3667)
♦ MC3023	**Lansdale**	**ML3023**	(3667)
♦ MC3024	**Lansdale**	**ML3024**	(3667)
	Rochester	RC3024	
♦ MC3025	**Lansdale**	**ML3025**	(3667)
♦ MC3026	**Lansdale**	**ML3026**	(3667)
♦ MC3029	**Lansdale**	**ML3029**	(3667)
♦ MC3030	Lansdale	ML3030	
	Rochester	RC3030	
♦ MC3031	**Lansdale**	**ML3031**	(3667)
	Rochester	RC3031	
♦ MC3032	**Lansdale**	**ML3032**	(3667)
	Rochester	RC3032	
♦ MC3033	Lansdale	ML3033	
♦ MC3034	Lansdale	ML3034	
	Rochester	RC3034	
MC3046	GEC Plessey	SL3046	
♦ MC3050	Lansdale	ML3050	
♦ MC3051	**Lansdale**	**ML3051**	(3667)
♦ MC3052	**Lansdale**	**ML3052**	(3667)
	Rochester	9001	
♦ MC3053	Lansdale	ML3053	
♦ MC3054	Lansdale	ML3054	
	Rochester	RC3054	
♦ MC3055	Lansdale	ML3055	
	Rochester	RC3055	
♦ MC3060	**Lansdale**	**ML3060**	(3667)
♦ MC3061	**Lansdale**	**ML3061**	(3667)
♦ MC3062	**Lansdale**	**ML3062**	(3667)
♦ MC3063	Lansdale	ML3063	
	Rochester	RC3063	
♦ MC3064	Lansdale	ML3064	
♦ MC3100	**Lansdale**	**ML3100**	(3667)
	Rochester	RC3101	
♦ MC3101	**Lansdale**	**ML3101**	(3667)
♦ MC3102	**Lansdale**	**ML3102**	(3667)
♦ MC3103	**Lansdale**	**ML3103**	(3667)

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ MC3104	**Lansdale**	**ML3104**	(3667)
	Rochester	RC3104	
♦ MC3105	**Lansdale**	**ML3105**	(3667)
	Rochester	RC3105	
♦ MC3106	**Lansdale**	**ML3106**	(3667)
	Rochester	RC3106	
♦ MC3107	**Lansdale**	**ML3107**	(3667)
♦ MC3108	**Lansdale**	**ML3108**	(3667)
	Rochester	RC3108	
♦ MC3109	**Lansdale**	**ML3109**	(3667)
	Rochester	RC3109	
♦ MC3110	**Lansdale**	**ML3110**	(3667)
	Rochester	RC3110	
♦ MC3111	**Lansdale**	**ML3111**	(3667)
	Rochester	RC3111	
♦ MC3112	**Lansdale**	**ML3112**	(3667)
	Rochester	RC3112	
♦ MC3115	**Lansdale**	**ML3115**	(3667)
	Rochester	RC3115	
♦ MC3116	**Lansdale**	**ML3116**	(3667)
	Rochester	RC3116	
♦ MC3118	Lansdale	ML3118	
	Rochester	RC3118	
♦ MC3119	Lansdale	ML3119	
	Rochester	RC3119	
♦ MC3120	**Lansdale**	**ML3120**	(3667)
	Rochester	RC3120	
♦ MC3121	**Lansdale**	**ML3121**	(3667)
♦ MC3122	**Lansdale**	**ML3122**	(3667)
♦ MC3123	**Lansdale**	**ML3123**	(3667)
	Rochester	RC3123	
♦ MC3124	**Lansdale**	**ML3124**	(3667)
	Rochester	RC3124	
♦ MC3125	**Lansdale**	**ML3125**	(3667)
♦ MC3126	**Lansdale**	**ML3126**	(3667)
♦ MC3128	**Lansdale**	**ML3128**	(3667)
♦ MC3129	**Lansdale**	**ML3129**	(3667)
♦ MC3130	Lansdale	ML3130	
	Rochester	RC3130	
♦ MC3131	**Lansdale**	**ML3131**	(3667)
	Rochester	RC3131	
♦ MC3132	**Lansdale**	**ML3132**	(3667)
♦ MC3133	Rochester	RC3133	
♦ MC3134	Lansdale	ML3134	
	Rochester	RC3134	
♦ MC3150	Lansdale	ML3150	
♦ MC3151	**Lansdale**	**ML3151**	(3667)
♦ MC3152	**Lansdale**	**ML3152**	(3667)
	Rochester	9001	
♦ MC3153	Lansdale	ML3153	
♦ MC3154	Lansdale	ML3154	
	Rochester	RC3154	
♦ MC3155	Lansdale	ML3155	
	Rochester	RC3155	
		RC3163	
♦ MC3160	**Lansdale**	**ML3160**	(3667)
	Rochester	RC3160	
♦ MC3161	**Lansdale**	**ML3161**	(3667)
♦ MC3162	**Lansdale**	**ML3162**	(3667)
♦ MC3163	Lansdale	ML3163	
	Rochester	RC3163	
♦ MC3164	Lansdale	ML3164	
MC3301	Harris	CA3048	
		CA3052	
	National	µA3301	
		LM1900	
		LM3301	
MC3302	Harris	CA3290	
		CA3302	
	National	µA3302	
		LM3302	
	Philips	MC3302	
	Raytheon	RC3302	
	Samsung	LM3302	
	SGS-Thomson	MC3302	
	TI	LM3302	
MC3303	AD	OP421	
	AnalogSys	MA374	
	Harris	CA5470	
	National	µA3303	
	SGS-Thomson	MC3303	
	TI	MC3303	
MC33071	Harris	CA3140	
MC33072	Harris	CA3240	
MC33074	AnalogSys	MA374	
MC33078	**AD**	**SSM2139**	(3529
MC33079	AD	OP471	
	National	LM837	
MC33084	AnalogSys	MA374	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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anufacturer vice	Replacement Source	Device	IC Master Page
C33181	SGS-Thomson	TL061	
	TI	TL061	
C33182	SGS-Thomson	TL062	
	TI	TL062	
C33184	SGS-Thomson	TL064	
	TI	TL064	
C33282	National	TL082	
	SGS-Thomson	TL072	
		TL082	
	TI	TL072	
		TL082	
C33284	SGS-Thomson	TL084	
	TI	TL084	
C3346	GEC Plessey	SL3145	
	Harris	CA3045	
		CA3046	**(3637)**
		CA3086	
		CA3136	
		CA3146	
	National	µA3045	
		µA3046	
		LM3046	
		LM3146	
C3356	National	LM3089	
		LM3189	
C3357	Lansdale	ML3357	
C3358	AD	OP221	
	AnalogSys	MA372	
C3359	Allegro Micro	ULN3859	
	GEC Plessey	SL6652	
		SL6654	
		SL6655	
C3361	GEC Plessey	SL6652	
		SL6654	
		SL6655	
	National	LM3361	
	Philips	MC3361	
C3367	GEC Plessey	SL6652	
		SL6654	
		SL6655	
C3373	NEC	µPC1373	
C34001	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Burr-Brown	**OPA602**	**(3457, 3459)**
	Harris	CA3140	
	National	LF351	
	SGS-Thomson	LF351	
		MC34001	
	TI	LF351	
		TL071	
	Toshiba	TA75071	
C34002	AD	OP215	
	AnalogSys	MA336	
		MA372	
	Harris	CA3240	
	National	LF353	
		LF412	
	SGS-Thomson	LF353	
		MC34002	
	TI	LF353	
		TL072	
	Toshiba	TA75072	
C34004	AnalogSys	MA374	
	National	LF147	
		LF347	
	SGS-Thomson	MC34004	
	TI	LF347	
		TL074	
	Toshiba	TA75074	
C3401	Harris	CA3401	
	National	µA3401	
		LM3401	
C34017	Cherry Semi	CS34017	
C3403	AD	OP421	
	AnalogSys	MA374	
	Harris	CA5470	
	National	µA3403	
	Raytheon	RC3403A	
		RC4136	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC3403			(Cont'd)
	SGS-Thomson	MC3403	
	TI	MC3403	
		RC4136	
MC3405	AnalogSys	MA374	
MC34050	National	DS8923	
	Startech	ST34C50	
MC34051	National	DS8922	
	Startech	ST34C51	
MC34060	Allegro Micro	ULX8161	
	Philips	NE5561	
	TI	MC34060	
MC34063	Samsung	KA34063	
	TI	TL497	
MC34065P	Cherry Semi	CS3865	
MC34071	Harris	CA3140	
	TI	TLE2141	
		TL34071	
MC34072	Exar	XR34072	
	Harris	CA3240	
	TI	TLE2142	
		TL34072	
MC34074	AnalogSys	MA374	
	Exar	XR34074	
MC34081	**Burr-Brown**	**OPA602**	**(3457, 3459)**
MC34083	**Burr-Brown**	**OPA2107**	**(3457, 3459)**
MC3410	AD	DAC10	
	National	DAC1020	
	Philips	MC3410	
MC34118	Exar	XRT65118	
MC34119	Exar	XRT65119	
	National	LM386	
MC3412	Harris	HI565A	
	National	DAC1265	
MC34151	**Harris**	**ICL7667**	**(3638)**
MC3416	Raytheon	RC4444	
MC34166	LinearTech	LT1074	
MC34181	TI	TLE2061	
MC34182	TI	TLE2062	
MC34184	TI	TLE2064	
MC3423	Linfinity Micro	SG3423	
	TI	MC3423	
MC3430	National	DS3651	
MC3431	National	DS3651	
MC3432	National	DS3653	
MC3437	National	DM7837	
		DM8837	
		DS7837	
		DS8837	
	Philips	N8T37	
MC3438	National	DS8838	
MC3440	National	µA9640	
MC3446	National	LM3045	
		LM3046	
	SGS-Thomson	LM3045	
		LM3046	
MC3447	TI	SN75160	
MC3450	National	DS3650	
		LM163	
		LM363	
MC3452	National	DS3652	
MC3456	Harris	ICM7556	
	Linfinity Micro	SG556	
	National	µA556	
		LM556	
	Philips	NE5561	
	SGS-Thomson	LM556	
		NE556	
MC3458	AD	OP221	
	AnalogSys	MA336	
		MA372	
	National	µA798	
MC3470	Exar	XR3470	
	TI	MC3470	
MC3471	Cherry Semi	CS3471	
	TI	SN75251	
MC3476	AD	OP22	
MC3479	Allegro Micro	UCN5804	
MC3481	TI	SN75121	
		SN75125	
		SN75126	
MC3484	Cherry Semi	CS453	
	National	LM1849	
	SGS-Thomson	L583	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC3486	AMD	AM26LS33	
	National	µA9637	
		DS3486	
		DS9637	
	TI	µA9637	
MC3487	National	µA9638	
		DS3487	
		DS9638	
	TI	µA9638	
MC3488	National	µA9636	
		DS9636	
		DS9636A	
	TI	µA9636	
MC35001	AD	OP15	
	National	LF411	
MC35002	AD	OP215	
MC3503	AD	OP421	
	Raytheon	RM4136	
	SGS-Thomson	MC3503	
MC35060	Philips	SE5561	
MC35063	TI	TL7805	
MC3510	AD	DAC10	
	National	DAC1020	
MC3523	Linfinity Micro	SG3523	
MC3556	Harris	ICM7556	
	SGS-Thomson	SE556	
MC3558	AD	OP221	
	Lansdale	ML3558	
	National	µA798	
MC3590	Exar	XR6118	
♦ MC400	Lansdale	ML400	
	Rochester	SNG42	
♦ MC4000	**Lansdale**	**ML4000**	**(3667)**
♦ MC4001	**Lansdale**	**ML4001**	**(3667)**
♦ MC4002	Lansdale	ML4002	
♦ MC4005	**Lansdale**	**ML4005**	**(3667)**
♦ MC4006	**Lansdale**	**ML4006**	**(3667)**
♦ MC4008	**Lansdale**	**ML4008**	**(3667)**
♦ MC401	Lansdale	ML401	
	Rochester	SNG52	
♦ MC4010	**Lansdale**	**ML4010**	**(3667)**
♦ MC4012	**Lansdale**	**ML4012**	**(3667)**
♦ MC4015	**Lansdale**	**ML4015**	**(3667)**
♦ MC4016	**Lansdale**	**ML4016**	**(3667)**
♦ MC4017	**Lansdale**	**ML4017**	**(3667)**
♦ MC4018	**Lansdale**	**ML4018**	**(3667)**
♦ MC4019	**Lansdale**	**ML4019**	**(3667)**
♦ MC402	Lansdale	ML402	
	Rochester	SNG62	
♦ MC4021	Lansdale	ML4021	
♦ MC4022	Lansdale	ML4022	
♦ MC4023	Lansdale	ML4023	
♦ MC4026	Lansdale	ML4026	
♦ MC4028	Lansdale	ML4028	
♦ MC4029	Lansdale	ML4029	
♦ MC403	Lansdale	ML403	
	Rochester	SNG92	
♦ MC4030	Lansdale	ML4030	
♦ MC4032	Lansdale	ML4032	
♦ MC4035	Lansdale	ML4035	
♦ MC4037	Lansdale	ML4037	
♦ MC4038	**Lansdale**	**ML4038**	**(3667)**
♦ MC4039	Lansdale	ML4039	
♦ MC404	Lansdale	ML404	
	Rochester	SNG102	
♦ MC4040	**Lansdale**	**ML4040**	**(3667)**
♦ MC4041	Lansdale	ML4041	
♦ MC4042	**Lansdale**	**ML4042**	**(3667)**
♦ MC4043	Lansdale	ML4043	
♦ MC4048	**Lansdale**	**ML4048**	**(3667)**
♦ MC405	Lansdale	ML405	
	Rochester	SNG112	
♦ MC4050	**Lansdale**	**ML4050**	**(3667)**
♦ MC4051	Lansdale	ML4051	
♦ MC4052	Lansdale	ML4052	
♦ MC4053	Lansdale	ML4053	
♦ MC4054	Lansdale	ML4054	
♦ MC4055	Lansdale	ML4055	
♦ MC4056	**Lansdale**	**ML4056**	**(3667)**
♦ MC4058	Lansdale	ML4058	
♦ MC406	Lansdale	ML406	
	Rochester	SNG122	
♦ MC4060	**Lansdale**	**ML4060**	**(3667)**
♦ MC4062	Lansdale	ML4062	
♦ MC4064	Lansdale	ML4064	
♦ MC407	Lansdale	ML407	
	Rochester	SNG132	
♦ MC408	Lansdale	ML408	
	Rochester	SNG142	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ MC409	Lansdale	ML409	
	Rochester	SNG152	
♦ MC410	Lansdale	ML410	
	Rochester	SNG172	
♦ MC411	Lansdale	ML411	
	Rochester	SNG182	
♦ MC412	Lansdale	ML412	
	Rochester	SNG192	
♦ MC413	Lansdale	ML413	
	Rochester	SNF12	
♦ MC414	Lansdale	ML414	
	Rochester	SNF22	
♦ MC415	Lansdale	ML415	
	Rochester	SNF52	
♦ MC416	Lansdale	ML416	
	Rochester	SNF62	
♦ MC419	Lansdale	ML419	
	Rochester	SNG162	
♦ MC420	Lansdale	ML420	
	Rochester	SNG72	
♦ MC421	Lansdale	ML421	
	Rochester	SNF32	
♦ MC422	Lansdale	ML422	
♦ MC423	Lansdale	ML423	
	Rochester	SNF102	
♦ MC424	Lansdale	ML424	
	Rochester	SNF112	
♦ MC425	Lansdale	ML425	
	Rochester	SNG63	
♦ MC426	Lansdale	ML426	
	Rochester	SNG82	
♦ MC427	Lansdale	ML427	
	Rochester	SNG282	
♦ MC428	Lansdale	ML428	
	Rochester	SNG292	
♦ MC429	Lansdale	ML429	
	Rochester	SNG372	
♦ MC4300	**Lansdale**	**ML4300**	**(3667)**
♦ MC4301	Lansdale	ML4301	
♦ MC4302	Lansdale	ML4302	
♦ MC4304	**Lansdale**	**ML4304**	**(3667)**
♦ MC4305	**Lansdale**	**ML4305**	**(3667)**
♦ MC4306	**Lansdale**	**ML4306**	**(3667)**
♦ MC4307	**Lansdale**	**ML4307**	**(3667)**
♦ MC4308	**Lansdale**	**ML4308**	**(3667)**
♦ MC4310	**Lansdale**	**ML4310**	**(3667)**
♦ MC4312	**Lansdale**	**ML4312**	**(3667)**
♦ MC4315	Lansdale	ML4315	
♦ MC4316	Lansdale	ML4316	
♦ MC4318	Lansdale	ML4318	
♦ MC4319	Lansdale	ML4319	
♦ MC4321	**Lansdale**	**ML4321**	**(3667)**
♦ MC4322	**Lansdale**	**ML4322**	**(3667)**
♦ MC4323	Lansdale	ML4323	
♦ MC4326	Lansdale	ML4326	
♦ MC4327	Lansdale	ML4327	
♦ MC4328	Lansdale	ML4328	
♦ MC4329	Lansdale	ML4329	
♦ MC4330	Lansdale	ML4330	
♦ MC4331	Lansdale	ML4331	
♦ MC4332	Lansdale	ML4332	
♦ MC4335	Lansdale	ML4335	
♦ MC4337	Lansdale	ML4337	
♦ MC4338	Lansdale	ML4338	
♦ MC4339	Lansdale	ML4339	
♦ MC4340	Lansdale	ML4340	
♦ MC4341	Lansdale	ML4341	
♦ MC4342	Lansdale	ML4342	
♦ MC4343	Lansdale	ML4343	
MC4350	Micrel	MIC4350	
♦ MC4350	**Lansdale**	**ML4350**	**(3667)**
♦ MC4351	Lansdale	ML4351	
♦ MC4352	Lansdale	ML4352	
♦ MC4355	Lansdale	ML4355	
♦ MC4356	**Lansdale**	**ML4356**	**(3668)**
♦ MC4358	Lansdale	ML4358	
♦ MC4360	Lansdale	ML4360	
♦ MC4362	Lansdale	ML4362	
♦ MC4364	Lansdale	ML4364	
♦ MC4368	Lansdale	ML4368	
♦ MC450	Lansdale	ML450	
	Rochester	SNG43	
MC4500A	Ideal Semi	ISI74500A	
♦ MC451	Lansdale	ML451	
	Rochester	SNG53	
♦ MC452	Lansdale	ML452	
♦ MC453	Lansdale	ML453	
	Rochester	SNG93	
♦ MC454	Lansdale	ML454	
	Rochester	SNG103	
♦ MC455	Lansdale	ML455	
	Rochester	SNG113	
♦ MC4553	Lansdale	ML4353	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC4558	AD	OP215	
	AnalogSys	MA336	
		MA372	
	Panasonic	AN4558	
		AN6552	
	Philips	NE4558	
	Raytheon	RC4558	
		RC4559	
	Samsung	MC4558	
	SGS-Thomson	MC4558	
	TI	RC4558	
♦ MC4558	National	µA4558	
	Raytheon	RC4558	
		RM4558	
♦ MC4558	Toshiba	TA75558	
♦ MC456	Lansdale	ML456	
	Rochester	SNG123	
♦ MC457	Lansdale	ML457	
	Rochester	SNG133	
♦ MC458	Lansdale	ML458	
	Rochester	SNG143	
♦ MC459	Lansdale	ML459	
	Rochester	SNG153	
♦ MC460	Lansdale	ML460	
	Rochester	SNG173	
♦ MC461	Lansdale	ML461	
	Rochester	SNG183	
♦ MC462	Lansdale	ML462	
	Rochester	SNG193	
♦ MC463	Lansdale	ML463	
	Rochester	SNF13	
♦ MC464	Lansdale	ML464	
	Rochester	SNF23	
♦ MC465	Lansdale	ML465	
	Rochester	SNF53	
♦ MC466	Lansdale	ML466	
	Rochester	SNF63	
♦ MC469	Lansdale	ML469	
	Rochester	SNG163	
♦ MC470	Lansdale	ML470	
	Rochester	SNG73	
♦ MC471	Lansdale	ML471	
	Rochester	SNF33	
♦ MC472	Lansdale	ML472	
♦ MC473	Lansdale	ML473	
	Rochester	SNF103	
♦ MC474	Lansdale	ML474	
	Rochester	SNF113	
MC4741	AD	OP11	
		OP421	
	AnalogSys	MA374	
	National	µA4136	
		LM149	
		LM249	
		LM348	
		LM349	
	Panasonic	AN6554	
	Raytheon	RC4156	
		RC4157	
		RC4741	
	TI	LM348	
♦ MC475	Lansdale	ML475	
♦ MC476	Lansdale	ML476	
	Rochester	SNG83	
♦ MC477	Rochester	SNG283	
♦ MC478	Lansdale	ML478	
	Rochester	SNG293	
♦ MC479	Lansdale	ML479	
	Rochester	SNG373	
♦ MC500	Lansdale	ML500	
	Rochester	SNG40	
♦ MC501	Lansdale	ML501	
	Rochester	SNG50	
♦ MC502	Lansdale	ML502	
	Rochester	SNG60	
♦ MC503	Lansdale	ML503	
	Rochester	SNG90	
♦ MC504	Lansdale	ML504	
	Rochester	SNG100	
♦ MC505	Lansdale	ML505	
	Rochester	SNG110	
♦ MC506	Lansdale	ML506	
	Rochester	SNG120	
♦ MC507	Lansdale	ML507	
	Rochester	SNG130	
♦ MC508	Lansdale	ML508	
	Rochester	SNG140	
♦ MC509	Lansdale	ML509	
	Rochester	SNG150	
♦ MC5090	Lansdale	ML5090	
♦ MC5092	Lansdale	ML5092	
♦ MC510	Lansdale	ML510	
	Rochester	SNG170	
MC5101	Hughes	H1822	
♦ MC511	Lansdale	ML511	
	Rochester	SNG180	
♦ MC5111	Lansdale	ML5111	
♦ MC5113	Lansdale	ML5113	
♦ MC512	Lansdale	ML512	
	Rochester	SNG190	
♦ MC5121	Lansdale	ML5121	
♦ MC5123	Lansdale	ML5123	
♦ MC513	Lansdale	ML513	
	Rochester	SNF10	
♦ MC5131	Lansdale	ML5131	
♦ MC5133	Lansdale	ML5133	
♦ MC514	Lansdale	ML514	
	Rochester	SNF20	
♦ MC5141	Lansdale	ML5141	
♦ MC5143	Lansdale	ML5143	
♦ MC515	Lansdale	ML515	
	Rochester	SNF50	
♦ MC5151	Lansdale	ML5151	
♦ MC5153	Lansdale	ML5153	
♦ MC516	Lansdale	ML516	
	Rochester	SNF60	
♦ MC5163	Lansdale	ML5163	
♦ MC5171	Lansdale	ML5171	
♦ MC5181	Lansdale	ML5181	
♦ MC5183	Lansdale	ML5183	
♦ MC519	Lansdale	ML519	
	Rochester	SNG160	
♦ MC5191	Lansdale	ML5191	
♦ MC5193	Lansdale	ML5193	
♦ MC520	Lansdale	ML520	
	Rochester	SNG70	
♦ MC521	Lansdale	ML521	
	Rochester	SNF30	
♦ MC522	Lansdale	ML522	
♦ MC523	Lansdale	ML523	
	Rochester	SNF100	
♦ MC524	Lansdale	ML524	
	Rochester	SNF110	
♦ MC525	Lansdale	ML525	
♦ MC526	Lansdale	ML526	
	Rochester	SNG80	
♦ MC527	Lansdale	ML527	
	Rochester	SNG280	
♦ MC528	Lansdale	ML528	
	Rochester	SNG290	
♦ MC529	Lansdale	ML529	
	Rochester	SNG370	
♦ MC5354	Lansdale	ML4354	
MC54F00	National	54F00	
	Philips	54F00	
	TI	SN54F00	
MC54F02	National	54F02	
	TI	SN54F02	
MC54F04	National	54F04	
	Philips	54F04	
	Rochester	54F04	
	TI	SN54F04	
MC54F08	National	54F08	
MC54F10	National	54F10	
	TI	SN54F09	
		SN54F10	
MC54F109	National	54F109	
	TI	SN54F109	
MC54F11	National	54F11	
	TI	SN54F11	
MC54F112	National	54F112	
	TI	SN54F112	
♦ MC54F113	National	54F113	
	TI	SN54F113	
♦ MC54F114	National	54F114	
	TI	SN54F114	
MC54F125	National	54F125	
MC54F13	National	54F13	
MC54F132	National	54F132	
MC54F138	National	54F138	
	TI	SN54F138	
MC54F139	National	54F139	
	Philips	54F139	
	Rochester	54F139	
MC54F14	National	54F14	
MC54F148	National	54F148	
MC54F151	National	54F151	
		54F151A	
	TI	SN54F151	
MC54F153	National	54F153	
	Rochester	54F153	
	TI	SN54F153	
MC54F157	Motorola	MC54F157A	
	National	54F157	
		54F157A	
	Philips	54F157	
	TI	SN54F157A	
MC54F157A	Motorola	MC54F157	
	National	54F157	
		54F157A	
	Philips	54F157	
	TI	SN54F157A	
MC54F158	Motorola	MC54F158A	
	National	54F158	
		54F158A	
	Philips	54F158	
	TI	SN54F158A	
MC54F158A	Motorola	MC54F158	
	National	54F158	
		54F158A	
	Philips	54F158	
	TI	SN54F158A	
♦ MC54F160A	National	54F160A	
	TI	SN54F160A	
♦ MC54F161A	National	54F161A	
	Rochester	54F161	
	TI	SN54F161A	
♦ MC54F162A	National	54F162A	
	TI	SN54F162A	
♦ MC54F163A	National	54F163A	
	TI	SN54F163A	
MC54F164	National	54F164	
		54F164A	
	Rochester	54F164	
♦ MC54F164	Rochester	54F164	
MC54F168	National	54F168	
	TI	SN54F168	
MC54F169	National	54F169	
	TI	SN54F169	
MC54F174	National	54F174	
	TI	SN54F174	
MC54F175	National	54F175	
	Rochester	54F175	
	TI	SN54F175	
MC54F181	National	54F181	
	Philips	54F181	
MC54F182	National	54F182	
♦ MC54F189	National	54F189	
♦ MC54F190	National	54F190	
♦ MC54F191	National	54F191	
♦ MC54F192	National	54F192	
♦ MC54F193	National	54F193	
♦ MC54F194	National	54F194	
MC54F20	National	54F20	
	Philips	54F20	
	Rochester	54F20	
	TI	SN54F20	
MC54F21	TI	SN54F21	
MC54F240	National	54F240	
	Philips	54F240	
	TI	SN54F240	
MC54F241	National	54F241	
	Philips	54F241	
	Rochester	54F241	
	TI	SN54F241	
MC54F242	National	54F242	
	TI	SN54F242	
MC54F243	National	54F243	
	TI	SN54F243	
MC54F244	National	54F244	
	Rochester	54F244	
	TI	SN54F244	
MC54F245	National	54F245	
	TI	SN54F245	
MC54F251	National	54F251A	
	TI	SN54F251	
MC54F253	National	54F253	
	TI	SN54F253	
MC54F256	National	54F256	
MC54F257	National	54F257	
		54F257A	
	Philips	54F257	
	Rochester	54F257A	
	TI	SN54F257	
MC54F258	National	54F258	
		54F258A	
	Philips	54F258	
	TI	SN54F258	
MC54F259	National	54F259	
MC54F269	National	54F2645	
		54F269	
	Philips	54F269	
MC54F273	National	54F273	
	TI	SN54F273	
MC54F280	National	54F280	
	Philips	54F280	
	TI	SN54F280B	
MC54F283	National	54F283	
	TI	SN54F283	
♦ MC54F289	TI	SN54F286	
♦ MC54F2960	Motorola	MC54F29368	
♦ MC54F2970	National	54F298	
MC54F299	TI	SN54F299	
MC54F32	National	54F32	
	TI	SN54F32	
MC54F323	National	54F322	
		54F323	
MC54F350	National	54F350	
	TI	SN54F350	
MC54F352	National	54F352	
	Rochester	54F352	
	TI	SN54F352	
MC54F353	National	54F353	
	TI	SN54F353	
MC54F365	National	54F365	
	TI	SN54F36	
MC54F366	National	54F366	
	Philips	54F366	
MC54F367	Philips	54F367	
MC54F368	National	54F368	
	Philips	54F368	
MC54F373	National	54F373	
	Philips	54F373	
	Rochester	54F373	
	TI	SN54F373	
MC54F374	National	54F374	
	Philips	54F374	
	Rochester	54F374	
	TI	SN54F374	
MC54F377	National	54F377	
	Philips	54F377	
MC54F378	National	54F378	
MC54F379	National	54F379	
	TI	SN54F379	
MC54F381	National	54F381	
	TI	SN54F381	
MC54F382	National	54F382	
	TI	SN54F382	
MC54F398	National	54F395	
		54F398	
	Rochester	54F398	
MC54F399	National	54F399	
MC54F51	National	54F51	
	TI	SN54F51	
MC54F521	National	54F521	
	Philips	54F521	
	TI	SN54F521	
MC54F533	National	54F533	
	TI	SN54F533	
MC54F534	National	54F534	
	TI	SN54F534	
MC54F537	National	54F537	
MC54F538	National	54F538	
MC54F539	National	54F539	
MC54F543	National	54F541	
		54F543	
	TI	SN54F543	
MC54F544	National	54F544	
	TI	SN54F544	
MC54F568	National	54F564	
		54F568	
MC54F569	National	54F569	
MC54F574	National	54F574	
	TI	SN54F574	
MC54F579	National	54F579	
	Philips	54F579	
♦ MC54F620	National	54F620	
	TI	SN54F620	
♦ MC54F621	TI	SN54F621	
♦ MC54F623	National	54F623	
	TI	SN54F623	
MC54F64	National	54F632	
		54F64	
	TI	SN54F64	
♦ MC54F640	National	54F640	
♦ MC54F643	National	54F643	
♦ MC54F645	National	54F645	
MC54F646	National	54F646	
	Philips	54F646	
MC54F648	National	54F648	
MC54F657A	Motorola	MC54F657B	
	National	54F657	
	Philips	54F657	
MC54F657B	Motorola	MC54F657A	
	National	54F657	
	Philips	54F657	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC54F74	National	54F710	
		54F74	
	TI	SN54F74	
MC54F779	National	54F779	
MC54F803	National	54F821	
MC54F827	National	54F827	
MC54F828	National	54F828	
MC54F85	National	54F845	
MC54F86	National	54F86	
MC54HCT00	Rochester	54HCT00	
MC54HCT00A	GoldStar	GD54HCT00	
	Harris	CD54HCT00	
	Ideal Semi	**54HCTLS86**	**(3643)**
	National	MM54HCT00	
	Rochester	54HCT00	
MC54HCT04	GoldStar	GD54HCT04	
	Harris	CD54HCT04	
	Motorola	MC54HCT04A	
	National	MM54HCT04	
	Rochester	54HCT04	
	TI	SN54HCT04	
MC54HCT04A	GoldStar	GD54HCT04	
	Harris	CD54HCT04	
	National	MM54HCT04	
	Rochester	54HCT04	
	TI	SN54HCT04	
MC54HCT04A	Rochester	54HCT04	
MC54HCT05	GoldStar	GD54HCT05	
	National	MM54HCT05	
	Rochester	54HCT05	
MC54HCT08A	GoldStar	GD54HCT08	
	Harris	CD54HCT08	
	National	MM54HCT08	
MC54HCT138A			
	GEC Plessey	54HCT138SOS	
	GoldStar	GD54HCT138	
	Harris	CD54HCT138	
	National	MM54HCT138	
	TI	SN54HCT138	
MC54HCT14A	Harris	CD54HCT14	
MC54HCT157A			
	GoldStar	GD54HCT157	
	Harris	CD54HCT157	
	National	MM54HCT157	
MC54HCT158A			
	GoldStar	GD54HCT158	
	Harris	CD54HCT158	
	National	MM54HCT158	
MC54HCT161A			
	GoldStar	GD54HCT161	
	Harris	CD54HCT161	
MC54HCT163A			
	GoldStar	GD54HCT163	
	Harris	CD54HCT163	
MC54HCT174A			
	GoldStar	GD54HCT174	
	Harris	CD54HCT174	
MC54HCT240A			
	GEC Plessey	54HCT239SOS	
		54HCT240SOS	
	Harris	CD54HCT240	
	National	MM54HCT240	
	TI	SN54HCT240	
MC54HCT241A			
	GEC Plessey	54HCT241SOS	
	GoldStar	GD54HCT241	
	Harris	CD54HCT241	
	National	MM54HCT241	
	TI	SN54HCT241	
MC54HCT244A			
	GEC Plessey	54HCT244SOS	
	GoldStar	GD54HCT244	
	Harris	CD54HCT244	
	National	MM54HCT244	
	TI	SN54HCT244	
MC54HCT245A			
	GEC Plessey	54HCT245SOS	
	GoldStar	GD54HCT245	
	Harris	CD54HCT245	
	National	MM54HCT245	
	TI	SN54HCT245	
MC54HCT273A			
	GoldStar	GD54HCT273	
	Harris	CD54HCT273	
	National	MM54HCT273	
	Rochester	54HCT273	
MC54HCT273A			
	Rochester	54HCT273	
MC54HCT32A	GoldStar	GD54HCT32	
	Harris	CD54HCT32	
	National	MM54HCT32	

Manufacturer Device	Replacement Source	Device	IC Master Page
◆MC54HCT34	GoldStar	GD54HCT34	
	Rochester	54HCT34	
MC54HCT373A			
	GEC Plessey	54HCT373SOS	
	GoldStar	GD54HCT373	
	Harris	CD54HCT373	
	National	MM54HCT373	
	TI	SN54HCT373	
MC54HCT374A			
	GEC Plessey	54HCT374SOS	
	GoldStar	GD54HCT374	
	Harris	CD54HCT374	
	National	MM54HCT374	
	TI	SN54HCT374	
◆MC54HCT533	Rochester	54HCT533	
MC54HCT533A			
	GEC Plessey	54HCT533SOS	
	GoldStar	GD54HCT533	
	Harris	CD54HCT533	
	National	MM54HCT533	
	Rochester	54HCT533	
MC54HCT534A			
	GEC Plessey	54HCT534SOS	
	GoldStar	GD54HCT534	
	Harris	CD54HCT534	
	National	MM54HCT534	
MC54HCT540	GEC Plessey	54HCT540SOS	
	Harris	CD54HCT540	
	National	MM54HCT540	
	TI	SN54HCT540	
MC54HCT541	GEC Plessey	54HCT541SOS	
	Harris	CD54HCT541	
	National	MM54HCT541	
	TI	SN54HCT541	
MC54HCT573A			
	GEC Plessey	54HCT573SOS	
	Harris	CD54HCT573	
MC54HCT574A			
	GEC Plessey	54HCT574SOS	
	Harris	CD54HCT574	
◆MC54HCT620	Harris	CD54HCT597	
	Rochester	54HCT620	
◆MC54HCT623	Harris	CD54HCT640	
	Motorola	MC54HCT640A	
	National	MM54HCT640	
	Rochester	54HCT640	
◆MC54HCT640	Rochester	54HCT640	
MC54HCT640A			
	Harris	CD54HCT640	
	National	MM54HCT640	
	Rochester	54HCT640	
◆MC54HCT74A	GoldStar	GD54HCT74	
	Harris	CD54HCT73	
		CD54HCT74	
◆MC54HCT74A	National	MM54HCT74	
	Rochester	54HCT74	
MC54HC00A	GoldStar	GD54HC00	
	Harris	CD54HCT93	
		CD54HC00	
	National	MM54HC00	
	TI	SN54HC00	
MC54HC02A	GoldStar	GD54HC01	
		GD54HC02	
	Harris	CD54HC02	
	National	MM54HC02	
	TI	SN54HC02	
MC54HC03A	GoldStar	GD54HC03	
	Harris	CD54HC03	
	National	MM54HC03	
	TI	SN54HC03	
MC54HC04A	GoldStar	GD54HC04	
	Harris	CD54HC04	
	National	MM54HC04	
	TI	SN54HC04	
◆MC54HC05	GoldStar	GD54HC05	
	National	MM54HC05	
	TI	SN54HC05	
MC54HC08A	GoldStar	GD54HC08	
	Harris	CD54HC08	
	National	MM54HC08	
	TI	SN54HC08	
MC54HC10	GoldStar	GD54HC10	
	Harris	CD54HC10	
	National	MM54HC10	
	TI	SN54HC10	
MC54HC107	Harris	CD54HC107	
	National	MM54HC107	
	Rochester	54HC107	
	TI	SN54HC107	
◆MC54HC107	Rochester	54HC107	
MC54HC109	Harris	CD54HC109	
	National	MM54HC109	
	TI	SN54HC109	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC54HC11	GoldStar	GD54HC11	
	Harris	CD54HC11	
	National	MM54HC11	
	Rochester	54HC11	
	TI	SN54HC11	
◆MC54HC11	Rochester	54HC11	
MC54HC112	Harris	CD54HC112	
	National	MM54HC112	
	TI	SN54HC112	
MC54HC113	National	MM54HC113	
	Rochester	54HC113	
	TI	SN54HC113	
◆MC54HC113	Rochester	54HC113	
◆MC54HC123A	Harris	CD54HC123	
	National	MM54HC123	
		MM54HC123A	
MC54HC125A	GoldStar	GD54HC125	
	Harris	CD54HC125	
	National	MM54HC125	
	TI	SN54HC125	
MC54HC126A	GoldStar	GD54HC126	
	Harris	CD54HC126	
	National	MM54HC126	
	TI	SN54HC126	
MC54HC132A	GoldStar	GD54HC132	
	Harris	CD54HC132	
	National	MM54HC132	
	TI	SN54HC132	
MC54HC133	National	MM54HC133	
	Rochester	54HC133	
	TI	SN54HC133	
◆MC54HC133	Rochester	54HC133	
MC54HC137	GoldStar	GD54HC137	
	Harris	CD54HC137	
	National	MM54HC137	
	TI	SN54HC137	
MC54HC138A	GoldStar	GD54HC138	
	Harris	CD54HC138	
	National	MM54HC138	
	TI	SN54HC138	
MC54HC139A	GoldStar	GD54HC139	
	Harris	CD54HC139	
	National	MM54HC139	
	TI	SN54HC139	
MC54HC14A	Harris	CD54HC14	
	National	MM54HC14	
	TI	SN54HC14	
MC54HC147	GoldStar	GD54HC147	
	Harris	CD54HC147	
	National	MM54HC147	
MC54HC151	GoldStar	GD54HC151	
	Harris	CD54HC151	
	National	MM54HC149	
		MM54HC151	
	TI	SN54HC151	
MC54HC153	GoldStar	GD54HC153	
	Harris	CD54HC153	
	National	MM54HC153	
	Rochester	54HC153	
	TI	SN54HC153	
◆MC54HC153	Rochester	54HC153	
MC54HC154	GoldStar	GD54HC154	
	Harris	CD54HC154	
	National	MM54HC154	
MC54HC157A	GoldStar	GD54HC157	
	Harris	CD54HC157	
	National	MM54HC157	
	TI	SN54HC157	
MC54HC160	GoldStar	GD54HC160	
	Harris	CD54HC160	
	National	MM54HC160	
	TI	SN54HC160	
MC54HC161A	GoldStar	GD54HC161	
	Harris	CD54HC161	
	National	MM54HC161	
	TI	SN54HC161	
MC54HC162	GoldStar	GD54HC162	
	Harris	CD54HC162	
	National	MM54HC162	
	Rochester	54HC162	
◆MC54HC162	Rochester	54HC162	
MC54HC163A	GoldStar	GD54HC163	
	Harris	CD54HC163	
	National	MM54HC163	
	TI	SN54HC163	
MC54HC164	GoldStar	GD54HC164	
	Harris	CD54HC164	
	National	MM54HC164	
	TI	SN54HC164	
MC54HC165	GoldStar	GD54HC165	
	Harris	CD54HC165	
	National	MM54HC165	
	TI	SN54HC165	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC54HC173	GoldStar	GD54HC173	
	Harris	CD54HC173	
	National	MM54HC173	
	Rochester	54HC173	
	TI	SN54HC173	
◆MC54HC173	Rochester	54HC173	
MC54HC174A	GoldStar	GD54HC174	
	Harris	CD54HC174	
	National	MM54HC174	
	TI	SN54HC174	
MC54HC175	GoldStar	GD54HC175	
	Harris	CD54HC175	
	National	MM54HC175	
	TI	SN54HC175	
MC54HC194	Harris	CD54HC194	
	National	MM54HC194	
	Rochester	54HC194	
	TI	SN54HC194	
◆MC54HC194	Rochester	54HC194	
MC54HC195	Harris	CD54HC195	
	National	MM54HC195	
	TI	SN54HC195	
MC54HC20	GoldStar	GD54HC20	
	Harris	CD54HC20	
	National	MM54HC20	
	TI	SN54HC20	
◆MC54HC221A	GoldStar	GD54HC221	
	Harris	CD54HC221	
	National	MM54HC221A	
MC54HC237	Harris	CD54HC237	
	National	MM54HC237	
	Rochester	54HC237	
	TI	SN54HC237	
◆MC54HC237	Rochester	54HC237	
◆MC54HC239	Harris	CD54HC240	
	Motorola	MC54HC240A	
	National	MM54HC240	
	TI	SN54HC240	
MC54HC240A	Harris	CD54HC240	
	National	MM54HC240	
	TI	SN54HC240	
MC54HC241A	GoldStar	GD54HC241	
	Harris	CD54HC241	
	National	MM54HC241	
	Rochester	54HC241	
	TI	SN54HC241	
◆MC54HC241A	Rochester	54HC241	
MC54HC242	Harris	CD54HC242	
	National	MM54HC242	
	Rochester	54HC242	
	TI	SN54HC242	
◆MC54HC242	Rochester	54HC242	
MC54HC244A	GoldStar	GD54HC244	
	Harris	CD54HC244	
	National	MM54HC244	
	TI	SN54HC244	
MC54HC245A	GoldStar	GD54HC245	
	Harris	CD54HC245	
	National	MM54HC245	
		MM54HC245A	
	TI	SN54HC245	
MC54HC251	Harris	CD54HC251	
	National	MM54HC251	
	Rochester	54HC251	
	TI	SN54HC251	
◆MC54HC251	Rochester	54HC251	
MC54HC253	Harris	CD54HC253	
	National	MM54HC253	
	Rochester	54HC253	
	TI	SN54HC253	
◆MC54HC253	Rochester	54HC253	
MC54HC257	GoldStar	GD54HC257	
	Harris	CD54HC257	
	National	MM54HC257	
	TI	SN54HC257	
◆MC54HC258	Harris	CD54HC258	
	National	MM54HC258	
	TI	SN54HC258	
MC54HC259	Harris	CD54HC259	
	National	MM54HC259	
	TI	SN54HC259	
MC54HC266	National	MM54HC266	
	Rochester	54HC266	
	TI	SN54HC266	
◆MC54HC266	Rochester	54HC266	
MC54HC27	GoldStar	GD54HC27	
	Harris	CD54HC27	
	National	MM54HC27	
	TI	SN54HC27	
MC54HC273A	GoldStar	GD54HC273	
	Harris	CD54HC273	
	National	MM54HC273	
	TI	SN54HC273	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC54HC280	GoldStar	GD54HC280	
	Harris	CD54HC280	
	National	MM54HC280	
	TI	SN54HC280	
♦ MC54HC283	Harris	CD54HC283	
	National	MM54HC283	
♦ MC54HC298	Harris	CD54HC297	
	National	MM54HC298	
MC54HC299	GoldStar	GD54HC299	
	Harris	CD54HC299	
	National	MM54HC299	
MC54HC30	GoldStar	GD54HC30	
	Harris	CD54HC30	
	National	MM54HC30	
	TI	SN54HC30	
MC54HC32A	GoldStar	GD54HC32	
	Harris	CD54HC32	
	National	MM54HC32	
	TI	SN54HC32	
MC54HC354	Harris	CD54HC354	
	National	MM54HC354	
	Rochester	54HC354	
♦ MC54HC354	Rochester	54HC354	
♦ MC54HC356	Harris	CD54HC356	
	National	MM54HC356	
MC54HC365	GoldStar	GD54HC365	
	Harris	CD54HC365	
	National	MM54HC365	
	TI	SN54HC365	
MC54HC366	GoldStar	GD54HC366	
	Harris	CD54HC366	
	National	MM54HC366	
	Rochester	54HC366	
	TI	SN54HC366	
♦ MC54HC366	Rochester	54HC366	
MC54HC367	GoldStar	GD54HC367	
	Harris	CD54HC367	
	National	MM54HC367	
	TI	SN54HC367	
MC54HC368	GoldStar	GD54HC368	
	Harris	CD54HC368	
	National	MM54HC368	
	Rochester	54HC368	
	TI	SN54HC368	
MC54HC373A	GoldStar	GD54HC373	
	Harris	CD54HC373	
	National	MM54HC373	
	TI	SN54HC373	
MC54HC374A	GoldStar	GD54HC374	
	Harris	CD54HC374	
	National	MM54HC374	
	TI	SN54HC374	
♦ MC54HC386	TI	SN54HC386	
MC54HC390	Harris	CD54HC390	
	National	MM54HC390	
	TI	SN54HC390	
MC54HC393	GoldStar	GD54HC393	
	Harris	CD54HC393	
	National	MM54HC393	
	TI	SN54HC393	
MC54HC4002	Harris	CD54HC4002	
	National	MM54HC4002	
	Rochester	54HC4002	
	TI	SN54HC4002	
♦ MC54HC4002	Rochester	54HC4002	
MC54HC4016	Harris	CD54HC4015	
		CD54HC4016	
	National	MM54HC4016	
	Rochester	54HC4016	
	TI	SN54HC4016	
		TLC4016	
♦ MC54HC4016	Rochester	54HC4016	
MC54HC4017	Harris	CD54HC4017	
	National	MM54HC4017	
MC54HC4020	Harris	CD54HC4020	
	National	MM54HC4020	
	TI	SN54HC4020	
MC54HC4024	Harris	CD54HC4024	
	TI	SN54HC4024	
MC54HC4040	Harris	CD54HC4040	
	National	MM54HC4040	
	TI	SN54HC4040	
♦ MC54HC4046	Rochester	54HC4046	
MC54HC4046A			
	Harris	CD54HC4046A	
	National	MM54HC4046	
	Rochester	54HC4046	
MC54HC4049	Harris	CD54HC4049	
	National	MM54HC4049	
MC54HC4050	Harris	CD54HC4050	
	National	MM54HC4050	
			(Continued)
MC54HC4051	Harris	CD54HC4051	
	National	MM54HC4051	
MC54HC4052	Harris	CD54HC4052	
	National	MM54HC4052	
MC54HC4053	Harris	CD54HC4053	
	National	MM54HC4053	
MC54HC4060	Harris	CD54HC4059	
		CD54HC4060	
	National	MM54HC4060	
	Rochester	54HC4060	
MC54HC4066	Harris	CD54HC4066	
	National	MM54HC4066	
	Rochester	54HC4066	
	TI	SN54HC4066	
		TLC4066	
♦ MC54HC4066	Rochester	54HC4066	
MC54HC4075	Harris	CD54HC4067	
		CD54HC4075	
	National	MM54HC4075	
	Rochester	54HC4075	
	TI	SN54HC4075	
♦ MC54HC4075	Rochester	54HC4075	
MC54HC4078	National	MM54HC4078	
	TI	SN54HC4078A	
MC54HC42	GoldStar	GD54HC42	
	Harris	CD54HC4094	
		CD54HC42	
	National	MM54HC42	
	TI	SN54HC42	
♦ MC54HC423A	Harris	CD54HC423	
	National	MM54HC423A	
MC54HC4316	Harris	CD54HC4316	
	National	MM54HC4316	
	Rochester	54HC4316	
♦ MC54HC4316	Rochester	54HC4316	
MC54HC4351	Harris	CD54HC4351	
MC54HC4352	Harris	CD54HC4352	
MC54HC4353	Harris	CD54HC4353	
MC54HC4511	Harris	CD54HC4511	
	National	MM54HC4511	
MC54HC4514	Harris	CD54HC4514	
	National	MM54HC4514	
♦ MC54HC4514	Rochester	54HC4514	
♦ MC54HC4515	Harris	CD54HC4515	
♦ MC54HC4518	Harris	CD54HC4518	
MC54HC4538A			
	Harris	CD54HC4520	
		CD54HC4538	
	National	MM54HC4538	
♦ MC54HC4543	Harris	CD54HC4543	
	National	MM54HC4543	
MC54HC51	GoldStar	GD54HC51	
	National	MM54HC51	
	TI	SN54HC51	
♦ MC54HC51	Rochester	54HC51	
♦ MC54HC533	Rochester	54HC533	
MC54HC533A	GoldStar	GD54HC533	
	Harris	CD54HC533	
	National	MM54HC521	
		MM54HC533	
	TI	SN54HC533	
♦ MC54HC534	Rochester	54HC534	
MC54HC534A	GoldStar	GD54HC534	
	Harris	CD54HC534	
	National	MM54HC534	
	TI	SN54HC534	
MC54HC540	Harris	CD54HC540	
	National	MM54HC540	
	TI	SN54HC540	
MC54HC541	Harris	CD54HC541	
	National	MM54HC541	
	TI	SN54HC541	
MC54HC563	Harris	CD54HC563	
	National	MM54HC563	
	TI	SN54HC563	
MC54HC564	Harris	CD54HC564	
	National	MM54HC564	
	TI	SN54HC564	
MC54HC573A	Harris	CD54HC573	
	National	MM54HC573	
	TI	SN54HC573	
MC54HC574A	Harris	CD54HC574	
	National	MM54HC574	
	TI	SN54HC574	
MC54HC58	GoldStar	GD54HC58	
	National	MM54HC58	
♦ MC54HC58	Rochester	54HC58	
MC54HC589	Harris	CD54HC583	
	National	MM54HC589	
♦ MC54HC590	TI	SN54HC590A	
MC54HC595A	National	MM54HC595	
	TI	SN54HC595	
			(Continued)
MC54HC597	Harris	CD54HC597	
	National	MM54HC597	
♦ MC54HC597	Rochester	54HC597	
♦ MC54HC620	National	MM54HC620	
	Rochester	54HC620	
	TI	SN54HC620	
♦ MC54HC623	National	MM54HC623	
	TI	SN54HC623	
MC54HC640A	Harris	CD54HC640	
	National	MM54HC640	
	TI	SN54HC640	
♦ MC54HC643	Harris	CD54HC643	
	National	MM54HC643	
	TI	SN54HC643	
MC54HC646	GoldStar	GD54HC646	
	Harris	CD54HC646	
	National	MM54HC646	
	Rochester	54HC646	
♦ MC54HC646	Rochester	54HC646	
MC54HC648	GoldStar	GD54HC648	
	Harris	CD54HC648	
	National	MM54HC648	
MC54HC688	Harris	CD54HC688	
	National	MM54HC688	
	TI	SN54HC688	
MC54HC7266	Harris	CD54HC7266	
	National	MM54HC7266	
MC54HC73	Harris	CD54HC73	
	National	MM54HC73	
MC54HC74A	GoldStar	GD54HC74	
	Harris	CD54HC74	
	National	MM54HC74	
	TI	SN54HC74	
MC54HC75	Harris	CD54HC75	
	National	MM54HC75	
	TI	SN54HC75	
MC54HC76	National	MM54HC76	
♦ MC54HC793	Harris	CD54HC85	
	Motorola	MC54HC85	
	National	MM54HC85	
	TI	SN54HC85A	
MC54HC85	Harris	CD54HC85	
	National	MM54HC85	
	TI	SN54HC85A	
MC54HC86	GoldStar	GD54HC86	
	Harris	CD54HC86	
	National	MM54HC86	
	TI	SN54HC86	
♦ MC54HC9373	Harris	CD54HC93	
♦ MC54H00	**Lansdale**	**ML54H00**	(3669)
		SL54H00	
♦ MC54H00	Rochester	RC3101	
		54H00	
♦ MC54H01	**Lansdale**	**ML54H01**	(3669)
		SL54H01	
♦ MC54H01	Rochester	54H01	
♦ MC54H02	Lansdale	ML54H02	
♦ MC54H04	**Lansdale**	**ML54H04**	(3669)
	Rochester	54H04	
♦ MC54H05	**Lansdale**	**ML54H05**	(3669)
	Rochester	54H05	
♦ MC54H08	**Lansdale**	**ML54H08**	(3669)
		SL54H08	
♦ MC54H08	Rochester	54H08	
♦ MC54H10	**Lansdale**	**ML54H10**	(3669)
		SL54H10	
♦ MC54H10	Rochester	54H10	
♦ MC54H101	**Lansdale**	**ML54H101**	(3669)
		SL54H101	
♦ MC54H101	Rochester	54H101	
♦ MC54H102	**Lansdale**	**ML54H102**	(3669)
		SL54H102	
♦ MC54H102	Rochester	54H102	
♦ MC54H103	**Lansdale**	**ML54H103**	(3669)
		SL54H103	
♦ MC54H103	Rochester	54H103	
♦ MC54H108	Rochester	54H108	
♦ MC54H11	**Lansdale**	**ML54H11**	(3669)
		SL54H11	
♦ MC54H11	Rochester	54H11	
♦ MC54H116	Lansdale	ML54H116	
♦ MC54H117	Lansdale	ML54H117	
♦ MC54H119	Lansdale	ML54H119	
♦ MC54H12	Lansdale	ML54H12	
♦ MC54H120	Lansdale	ML54H120	
♦ MC54H20	**Lansdale**	**ML54H20**	(3669)
		SL54H20	
♦ MC54H20	Rochester	54H20	
♦ MC54H21	**Lansdale**	**ML54H21**	(3669)
		SL54H21	
♦ MC54H21	Rochester	54H21	
♦ MC54H22	**Lansdale**	**ML54H22**	(3669)
		SL54H22	
			(Continued)
♦ MC54H22	Rochester	54H22	
♦ MC54H28	Lansdale	ML54H28	
♦ MC54H29	Lansdale	ML54H29	
♦ MC54H30	**Lansdale**	**ML54H30**	(3669
		SL54H30	
♦ MC54H30	Rochester	54H30	
♦ MC54H31	Lansdale	ML54H31	
♦ MC54H32	Lansdale	ML54H32	
♦ MC54H36	Lansdale	ML54H36	
♦ MC54H39	Lansdale	ML54H39	
♦ MC54H40	**Lansdale**	**ML54H40**	(3669
		SL54H40	
♦ MC54H40	Rochester	54H40	
♦ MC54H50	**Lansdale**	**ML54H50**	(3669
	Rochester	54H50	
♦ MC54H51	**Lansdale**	**ML54H51**	(3669
	Rochester	54H51	
♦ MC54H52	**Lansdale**	**ML54H52**	(3669
		SL54H52	
♦ MC54H52	Rochester	54H52	
♦ MC54H53	**Lansdale**	**ML54H53**	(3669
		SL54H53	
♦ MC54H53	Rochester	54H53	
♦ MC54H54	**Lansdale**	**ML54H54**	(3669
		SL54H54	
♦ MC54H54	Rochester	54H54	
♦ MC54H55	**Lansdale**	**ML54H55**	(3669
		SL54H55	
♦ MC54H55	Rochester	54H55	
♦ MC54H60	**Lansdale**	**ML54H60**	(3669
		SL54H60	
		SL54H61	
♦ MC54H60	Rochester	54H60	
♦ MC54H61	**Lansdale**	**ML54H61**	(3669
	Rochester	54H61	
		54H62	
♦ MC54H62	**Lansdale**	**ML54H62**	(3669
		SL54H62	
♦ MC54H71	**Lansdale**	**ML54H71**	(3669
		SL54H71	
♦ MC54H71	Rochester	54H71	
♦ MC54H72	**Lansdale**	**ML54H72**	(3669
		SL54H72	
♦ MC54H72	Rochester	54H72	
♦ MC54H73	**Lansdale**	**ML54H73**	(3669
		SL54H73	
♦ MC54H73	Rochester	54H73	
♦ MC54H74	**Lansdale**	**ML54H74**	(3669
		SL54H74	
♦ MC54H74	Rochester	54H74	
♦ MC54H86	Lansdale	ML54H86	
♦ MC54H87	**Lansdale**	**ML54H87**	(3669
	Rochester	54H87	
♦ MC54H89	Lansdale	ML54H89	
♦ MC54SS00	Lansdale	ML54SS00	
♦ MC54SS02	Lansdale	ML54SS02	
♦ MC54SS04	Lansdale	ML54SS04	
♦ MC54SS08	Lansdale	ML54SS08	
♦ MC54SS10	Lansdale	ML54SS10	
♦ MC54SS11	Lansdale	ML54SS11	
♦ MC54SS133	Lansdale	ML54SS133	
♦ MC54SS138	Lansdale	ML54SS138	
♦ MC54SS151	Lansdale	ML54SS151	
♦ MC54SS153	Lansdale	ML54SS153	
♦ MC54SS157	Lansdale	ML54SS157	
♦ MC54SS158	Lansdale	ML54SS158	
♦ MC54SS174	Lansdale	ML54SS174	
♦ MC54SS175	Lansdale	ML54SS175	
♦ MC54SS181	Lansdale	ML54SS181	
♦ MC54SS182	Lansdale	ML54SS182	
♦ MC54SS20	Lansdale	ML54SS20	
♦ MC54SS21	Lansdale	ML54SS21	
♦ MC54SS251	Lansdale	ML54SS251	
♦ MC54SS258	Lansdale	ML54SS258	
♦ MC54SS27	Lansdale	ML54SS27	
♦ MC54SS32	Lansdale	ML54SS32	
♦ MC54SS328	Lansdale	ML54SS328	
♦ MC54SS51	Lansdale	ML54SS51	
♦ MC54SS64	Lansdale	ML54SS64	
♦ MC54SS74	Lansdale	ML54SS74	
♦ MC54SS86	Lansdale	ML54SS86	
♦ MC5400	**Lansdale**	**ML5400**	(366
♦ MC5401	**Lansdale**	**ML5401**	(366
		SL5401	
♦ MC5402	**Lansdale**	**ML5402**	(366
		SL5402	
♦ MC5403	**Lansdale**	**ML5403**	(366
♦ MC5404	**Lansdale**	**ML5404**	(366
♦ MC5405	**Lansdale**	**ML5405**	(366
♦ MC5406	**Lansdale**	**ML5406**	(366
♦ MC5407	**Lansdale**	**ML5407**	(366
♦ MC5408	**Lansdale**	**ML5408**	(366
			(Continue

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC5409	**Lansdale**	**ML5409**	**(3668)**
		SL5409	
MC5410	**Lansdale**	**ML5410**	**(3668)**
MC54100	**Lansdale**	**ML54100**	**(3668)**
		SL54100	
MC54107	**Lansdale**	**ML54107**	**(3668)**
MC5412	Lansdale	ML5412	
MC54120	**Lansdale**	**ML54120**	**(3668)**
MC54121	**Lansdale**	**ML54121**	**(3668)**
MC54122	**Lansdale**	**ML54122**	**(3668)**
MC54123	**Lansdale**	**ML54123**	**(3668)**
MC54128	Lansdale	ML54128	
MC5413	**Lansdale**	**ML5413**	**(3668)**
MC54132	**Lansdale**	**ML54132**	**(3668)**
MC54136	**Lansdale**	**ML54136**	**(3668)**
MC5414	**Lansdale**	**ML5414**	**(3668)**
MC54141	Lansdale	ML54141	
MC54145	Lansdale	ML54145	
MC54150	**Lansdale**	**ML54150**	**(3668)**
MC54151	**Lansdale**	**ML54151**	**(3668)**
MC54152	**Lansdale**	**ML54152**	**(3668)**
		SL54152	
MC54153	**Lansdale**	**ML54153**	**(3668)**
MC54154	**Lansdale**	**ML54154**	**(3668)**
MC54155	**Lansdale**	**ML54155**	**(3668)**
MC54156	Lansdale	ML54156	
MC5416	**Lansdale**	**ML5416**	**(3668)**
MC54160	**Lansdale**	**ML54160**	**(3668)**
MC54161	**Lansdale**	**ML54161**	**(3668)**
MC54162	**Lansdale**	**ML54162**	**(3668)**
MC54163	**Lansdale**	**ML54163**	**(3668)**
MC54164	Lansdale	ML54164	
MC54164A	Lansdale	ML54164A	
MC54165	**Lansdale**	**ML54165**	**(3668)**
MC54166	Lansdale	ML54166	
MC54167	**Lansdale**	**ML54167**	**(3668)**
MC5417	**Lansdale**	**ML5417**	**(3668)**
MC54174	**Lansdale**	**ML54174**	**(3668)**
MC54175	**Lansdale**	**ML54175**	**(3668)**
MC54176	**Lansdale**	**ML54176**	**(3668)**
MC54177	**Lansdale**	**ML54177**	**(3668)**
MC54178	Lansdale	ML54178	
MC54179	Lansdale	ML54179	
MC54180	**Lansdale**	**ML54180**	**(3668)**
MC54181	**Lansdale**	**ML54181**	**(3668)**
MC54182	**Lansdale**	**ML54182**	**(3668)**
		SL54182	
MC54190	**Lansdale**	**ML54190**	**(3668)**
MC54191	**Lansdale**	**ML54191**	**(3668)**
MC54192	**Lansdale**	**ML54192**	**(3668)**
MC54193	**Lansdale**	**ML54193**	**(3668)**
MC54194	**Lansdale**	**ML54194**	**(3668)**
MC54195	**Lansdale**	**ML54195**	**(3668)**
MC54196	**Lansdale**	**ML54196**	**(3668)**
MC54197	**Lansdale**	**ML54197**	**(3668)**
MC54198	Lansdale	ML54198	
		SL54198	
MC54199	Lansdale	ML54199	
MC5420	**Lansdale**	**ML5420**	**(3668)**
MC5423	**Lansdale**	**ML5423**	**(3668)**
MC5425	**Lansdale**	**ML5425**	**(3668)**
MC5426	**Lansdale**	**ML5426**	**(3668)**
MC5427	**Lansdale**	**ML5427**	**(3668)**
MC54279	Lansdale	ML54279	
MC5428	Lansdale	ML5428	
MC54290	**Lansdale**	**ML54290**	**(3668)**
MC54293	**Lansdale**	**ML54293**	**(3668)**
MC54298	**Lansdale**	**ML54298**	**(3668)**
MC5430	**Lansdale**	**ML5430**	**(3668)**
MC5437	**Lansdale**	**ML5437**	**(3668)**
MC5438	**Lansdale**	**ML5438**	**(3668)**
MC5440	**Lansdale**	**ML5440**	**(3668)**
MC5441A	Lansdale	ML5441A	
MC5442	**Lansdale**	**ML5442**	**(3668)**
MC5442A	Lansdale	ML5442A	
MC5443	**Lansdale**	**ML5443**	**(3668)**
MC5444	**Lansdale**	**ML5444**	**(3668)**
MC5445	Lansdale	ML5445	
MC5446	Lansdale	ML5446	
MC5447	Lansdale	ML5447	
		SL5447	
MC5448	Lansdale	ML5448	
		SL5448	
MC5449	Lansdale	ML5449	
MC5450	**Lansdale**	**ML5450**	**(3668)**
MC5451	**Lansdale**	**ML5451**	**(3668)**
MC5453	**Lansdale**	**ML5453**	**(3668)**
		SL5453	
MC5454	**Lansdale**	**ML5454**	**(3668)**
		SL5454	
♦ MC5460	Lansdale	ML5460	
		SL5460	
♦ MC5470	**Lansdale**	**ML5470**	**(3668)**
		SL5470	
♦ MC5472	**Lansdale**	**ML5472**	**(3668)**
		SL5472	
♦ MC5473	**Lansdale**	**ML5473**	**(3668)**
♦ MC5474	**Lansdale**	**ML5474**	**(3668)**
♦ MC5475	**Lansdale**	**ML5475**	**(3668)**
♦ MC5476	**Lansdale**	**ML5476**	**(3668)**
♦ MC5477	**Lansdale**	**ML5477**	**(3668)**
♦ MC5479	**Lansdale**	**ML5479**	**(3668)**
♦ MC5480	**Lansdale**	**ML5480**	**(3668)**
♦ MC5481	Lansdale	ML5481	
♦ MC5483	**Lansdale**	**ML5483**	**(3668)**
♦ MC5484	Lansdale	ML5484	
♦ MC5485	**Lansdale**	**ML5485**	**(3668)**
♦ MC5486	**Lansdale**	**ML5486**	**(3668)**
♦ MC5490	Lansdale	ML5490	
♦ MC5490A	**Lansdale**	**ML5490A**	**(3668)**
♦ MC5491A	**Lansdale**	**ML5491A**	**(3668)**
♦ MC5492	Lansdale	ML5492	
♦ MC5492A	**Lansdale**	**ML5492A**	**(3668)**
♦ MC5493	Lansdale	ML5493	
♦ MC5493A	**Lansdale**	**ML5493A**	**(3668)**
♦ MC5494	**Lansdale**	**ML5494**	**(3668)**
♦ MC5495	Lansdale	ML5495	
♦ MC5495A	**Lansdale**	**ML5495A**	**(3668)**
♦ MC5496	**Lansdale**	**ML5496**	**(3668)**
♦ MC5497	**Lansdale**	**ML5497**	**(3668)**
♦ MC550	Lansdale	ML550	
	Rochester	SNG41	
♦ MC551	Lansdale	ML551	
	Rochester	SNG51	
♦ MC552	Lansdale	ML552	
	Rochester	SNG61	
♦ MC5524	Rochester	5524	
♦ MC553	Lansdale	ML553	
	Rochester	SNG91	
MC5539	Philips	NE5539	
♦ MC554	Lansdale	ML554	
	Rochester	SNG101	
♦ MC555	Lansdale	ML555	
	Rochester	SNG111	
♦ MC556	Lansdale	ML556	
	Rochester	SNG121	
♦ MC557	Lansdale	ML557	
	Rochester	SNG131	
♦ MC558	Lansdale	ML558	
	Rochester	SNG141	
♦ MC559	Rochester	SNG151	
♦ MC560	Lansdale	ML560	
	Rochester	SNG171	
♦ MC561	Rochester	SNG181	
♦ MC562	Lansdale	ML562	
	Rochester	SNG191	
♦ MC563	Lansdale	ML563	
	Rochester	SNF11	
♦ MC564	Lansdale	ML564	
	Rochester	SNF21	
♦ MC565	Lansdale	ML565	
	Rochester	SNF51	
♦ MC566	Lansdale	ML566	
	Rochester	SNF61	
♦ MC569	Lansdale	ML569	
	Rochester	SNG161	
♦ MC570	Lansdale	ML570	
	Rochester	SNG71	
♦ MC571	Lansdale	ML571	
	Rochester	SNF31	
♦ MC572	Lansdale	ML572	
♦ MC573	Lansdale	ML573	
	Rochester	SNF101	
♦ MC574	Lansdale	ML574	
	Rochester	SNF111	
♦ MC575	Lansdale	ML575	
♦ MC576	Lansdale	ML576	
	Rochester	SNG81	
♦ MC577	Lansdale	ML577	
	Rochester	SNG281	
♦ MC578	Lansdale	ML578	
	Rochester	SNG291	
♦ MC579	Lansdale	ML579	
MC6108	GEC Plessey	ZN427	
MC6287	Performance	P4C187	
MC660	Lansdale	ML660	
♦ MC660	Lansdale	ML660T	
MC661	Lansdale	ML661	
♦ MC661	Lansdale	ML661T	
MC662	Lansdale	ML662	
♦ MC662	Lansdale	ML662T	
MC663	Lansdale	ML663	
♦ MC663	Lansdale	ML663T	
MC664	Lansdale	ML664	
♦ MC664	Lansdale	ML664T	
MC665	Lansdale	ML665	
♦ MC665	Lansdale	ML665T	
MC666	Lansdale	ML666	
♦ MC666	Lansdale	ML666T	
MC667	Lansdale	ML667	
♦ MC667	Lansdale	ML667T	
		ML677T	
MC668	Harris	ICL7650	
	Lansdale	ML668	
♦ MC668	Lansdale	ML668T	
MC669	Lansdale	ML669	
♦ MC669	Lansdale	ML669T	
MC670	Lansdale	ML670	
♦ MC670	Lansdale	ML670T	
♦ MC671	Lansdale	ML671T	
MC671			
	Lansdale	ML671	
MC672	Lansdale	ML672	
♦ MC672	Lansdale	ML672T	
MC673	Lansdale	ML673	
♦ MC673	Lansdale	ML673T	
MC674	Lansdale	ML674	
♦ MC674	Lansdale	ML674T	
MC675	Lansdale	ML675	
♦ MC675	Lansdale	ML675T	
MC676	Lansdale	ML676	
♦ MC676	Lansdale	ML676T	
MC677	Lansdale	ML677	
MC678	Lansdale	ML678	
♦ MC678	Lansdale	ML678T	
MC679	Lansdale	ML679	
♦ MC679	Lansdale	ML679T	
MC68A45	**Rockwell**	**R6545**	**(3759)**
MC68B45	**Rockwell**	**R6545**	**(3759)**
MC68HC000	Thomson		
	Comp	TS68C000	
MC68HC06	Hitachi	HD6305	
MC68HC11	Hitachi	HD6301	
		HD647180	
MC680	Lansdale	ML680	
♦ MC680	Lansdale	ML680T	
MC6800	Krueger	6800	
	Thomson		
	Comp	EF6800	
MC68000	Thomson		
	Comp	TS68000	
MC68008	Krueger	68008	
MC68010	Krueger	68010	
MC6802	Thomson		
	Comp	EF6802	
		EF6803	
MC68020	Krueger	68020	
	Thomson		
	Comp	TS68020	
MC6809	Krueger	6809	
	Thomson		
	Comp	EF6809	
MC6809E	Krueger	6809E	
MC681	Lansdale	ML681	
♦ MC681	Lansdale	ML681T	
MC6810	Hughes	H1823	
	Thomson		
	Comp	EF6810	
♦ MC682	Lansdale	ML682T	
MC6821	**Rockwell**	**R65C21**	**(3759)**
		R6520	**(3759)**
	Thomson		
	Comp	EF6821	
MC68211	Krueger	68211	
MC683	Lansdale	ML683	
♦ MC683	Lansdale	ML683T	
♦ MC684	Lansdale	ML684T	
MC6840	Thomson		
	Comp	EF6840	
MC6845	Krueger	6845	
	Rockwell	**R6545**	**(3759)**
	SMC	CRT5037	
MC685	Lansdale	ML685	
♦ MC685	Lansdale	ML685T	
MC6850	Samsung	KS5824	
	SMC	COM8017	
	Thomson		
	Comp	EF6850	
MC6852	Thomson		
	Comp	EF6852	
MC6854	Thomson		
	Comp	EF6854	
MC686	Lansdale	ML686	
♦ MC686	Lansdale	ML686T	
MC68681	Exar	XR68C681	
	Philips	SCN68681	
MC688	Lansdale	ML688	
♦ MC688	Lansdale	ML688T	
MC68836	AT&T	T7351A	
MC68837	AT&T	T7351A	
MC68881	Krueger	68881	
	Thomson		
	Comp	TS68881	
MC68882	Thomson		
	Comp	TS68882	
MC6889	National	DS8T28	
MC689	Lansdale	ML689	
♦ MC689	Lansdale	ML689T	
MC6890	GEC Plessey	ZN428	
		ZN558	
MC690	Lansdale	ML690	
♦ MC690	Lansdale	ML690T	
MC691	Lansdale	ML691	
♦ MC691	Lansdale	ML691T	
MC693	Lansdale	ML693	
♦ MC693	Lansdale	ML693T	
MC696	Lansdale	ML696	
♦ MC696	Lansdale	ML696T	
MC697	Lansdale	ML697	
♦ MC697	Lansdale	ML697T	
MC699	Lansdale	ML699	
♦ MC699	Lansdale	ML699T	
♦ MC700	Rochester	900	
♦ MC701	Rochester	901	
♦ MC702	Rochester	902	
♦ MC703	Rochester	903	
♦ MC704	Rochester	904	
♦ MC705	Rochester	905	
♦ MC706	Rochester	906	
♦ MC707	Rochester	907	
♦ MC708	Rochester	908	
♦ MC709	Rochester	909	
♦ MC710	Rochester	910	
♦ MC711	Rochester	911	
♦ MC712	Rochester	912	
♦ MC713	Rochester	913	
♦ MC714	Rochester	914	
♦ MC715	Rochester	915	
♦ MC716	Rochester	923	
♦ MC7200	Lansdale	ML7200	
♦ MC7201	Lansdale	ML7201	
♦ MC7202	Lansdale	ML7202	
♦ MC7203	Lansdale	ML7203	
♦ MC721	Rochester	921	
♦ MC7233	Lansdale	ML7233	
♦ MC7234	Lansdale	ML7234	
♦ MC7235	Lansdale	ML7235	
♦ MC7241	Lansdale	ML7241	
♦ MC7242	Lansdale	ML7242	
♦ MC7250	Lansdale	ML7250	
♦ MC7251	Lansdale	ML7251	
♦ MC7260	Lansdale	ML7260	
♦ MC7261	Lansdale	ML7261	
♦ MC7266	Lansdale	ML7266	
♦ MC7267	Lansdale	ML7267	
♦ MC727	Rochester	927	
♦ MC7270	Lansdale	ML7270	
♦ MC7271	Lansdale	ML7271	
♦ MC7280	Lansdale	ML7280	
♦ MC7281	Lansdale	ML7281	
♦ MC7284	Lansdale	ML7284	
♦ MC7285	Lansdale	ML7285	
♦ MC7288	Lansdale	ML7288	
♦ MC7290	Lansdale	ML7290	
♦ MC7291	Lansdale	ML7291	
		SL7291	
MC74ACT00	Harris	CD74ACT00	
	National	74ACT00	
	Toshiba	**TC74ACT00**	**(3836)**
MC74ACT02	Harris	CD74ACT02	
	National	74ACT02	
	Toshiba	**TC74ACT02**	**(3836)**
MC74ACT04	Harris	CD74ACT04	
	National	74ACT04	
	Toshiba	**TC74ACT04**	**(3836)**
MC74ACT05	Harris	CD74ACT05	
MC74ACT08	Harris	CD74ACT08	
	Toshiba	**TC74ACT08**	**(3836)**
MC74ACT10	Harris	CD74ACT10	
	National	74ACT10	
	Toshiba	**TC74ACT10**	**(3836)**
MC74ACT109	Harris	CD74ACT109	
	National	74ACT109	
	Toshiba	**TC74ACT109**	**(3836)**
MC74ACT11	TI	74ACT11000	
MC74ACT113	TI	74ACT11323	
MC74ACT125	National	74ACT125	
MC74ACT126	Motorola	MC74ACT132	
MC74ACT132	Motorola	MC74ACT126	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC74ACT138	Harris	CD74ACT138	
	National	74ACT138	
	Toshiba	**TC74ACT138**	**(3836)**
MC74ACT139	Harris	CD74ACT139	
	National	74ACT139	
	Toshiba	**TC74ACT139**	**(3836)**
MC74ACT14	Harris	CD74ACT14	
	National	74ACT14	
	Toshiba	**TC74ACT14**	**(3836)**
MC74ACT151	Harris	CD74ACT151	
	National	74ACT151	
	Toshiba	**TC74ACT151**	**(3836)**
MC74ACT153	Harris	CD74ACT153	
	National	74ACT153	
	Toshiba	TC74ACT153	
MC74ACT157	Harris	CD74ACT157	
	National	74ACT157	
	Toshiba	**TC74ACT157**	**(3836)**
MC74ACT158	Harris	CD74ACT158	
	National	74ACT158	
	Toshiba	**TC74ACT158**	**(3836)**
MC74ACT160	Harris	CD74ACT161	
	Motorola	MC74ACT161	
	National	74ACT161	
	Toshiba	**TC74ACT161**	**(3836)**
MC74ACT161	Harris	CD74ACT161	
	Motorola	MC74ACT160	
	National	74ACT161	
	Toshiba	**TC74ACT161**	**(3836)**
MC74ACT162	TI	74ACT16240	
MC74ACT163	Harris	CD74ACT163	
	National	74ACT163	
	TI	74ACT16245	
	Toshiba	**TC74ACT163**	**(3836)**
MC74ACT174	Harris	CD74ACT174	
	National	74ACT169	
		74ACT174	
	Toshiba	**TC74ACT174**	**(3836)**
MC74ACT190	Harris	CD74ACT191	
MC74ACT194	Harris	CD74ACT193	
MC74ACT20	Harris	CD74ACT20	
	Toshiba	**TC74ACT20**	**(3836)**
MC74ACT240	Harris	CD74ACT238	
		CD74ACT240	
	National	74ACT240	
	Toshiba	**TC74ACT240**	**(3836)**
MC74ACT241	Harris	CD74ACT241	
	National	74ACT241	
	Toshiba	**TC74ACT241**	**(3836)**
MC74ACT244	Harris	CD74ACT244	
	National	74ACT244	
	Toshiba	**TC74ACT244**	**(3836)**
MC74ACT245	Harris	CD74ACT245	
	National	74ACT245	
	Toshiba	**TC74ACT245**	**(3836)**
MC74ACT251	Harris	CD74ACT251	
	National	74ACT251	
	Toshiba	**TC74ACT251**	**(3836)**
MC74ACT253	Harris	CD74ACT253	
	National	74ACT253	
	Toshiba	TC74ACT253	
MC74ACT256	Harris	CD74ACT257	
	Motorola	MC74ACT257	
	National	74ACT257	
	Toshiba	**TC74ACT257**	**(3836)**
MC74ACT257	Harris	CD74ACT257	
	Motorola	MC74ACT256	
	National	74ACT257	
	Toshiba	**TC74ACT257**	**(3836)**
MC74ACT258	Harris	CD74ACT258	
	National	74ACT258	
	Toshiba	**TC74ACT258**	**(3836)**
MC74ACT259	National	74ACT2708	
			(Continued)
MC74ACT273	Harris	CD74ACT273	
	National	74ACT273	
	Toshiba	**TC74ACT273**	**(3836)**
MC74ACT299	Harris	CD74ACT299	
	National	74ACT299	
	Toshiba	**TC74ACT299**	**(3836)**
MC74ACT32	Harris	CD74ACT32	
	National	74ACT32	
	Toshiba	**TC74ACT32**	**(3836)**
MC74ACT323	Harris	CD74ACT323	
	National	74ACT323	
MC74ACT350	National	74ACT350	
MC74ACT352	Motorola	MC74ACT353	
MC74ACT353	Motorola	MC74ACT352	
MC74ACT373	Harris	CD74ACT373	
	National	74ACT373	
	Toshiba	**TC74ACT373**	**(3836)**
MC74ACT374	Harris	CD74ACT374	
	National	74ACT374	
	Toshiba	**TC74ACT374**	**(3836)**
MC74ACT377	National	74ACT377	
	Toshiba	**TC74ACT377**	**(3836)**
MC74ACT521	National	74ACT521	
	Toshiba	TC74ACT521	
MC74ACT533	Harris	CD74ACT533	
	Toshiba	**TC74ACT533**	**(3836)**
MC74ACT534	Harris	CD74ACT534	
	National	74ACT534	
	Toshiba	**TC74ACT534**	**(3836)**
MC74ACT540	Harris	CD74ACT540	
	National	74ACT540	
	Toshiba	**TC74ACT540**	**(3836)**
MC74ACT541	Harris	CD74ACT541	
	National	74ACT541	
	Toshiba	**TC74ACT541**	**(3836)**
MC74ACT563	Harris	CD74ACT563	
	National	74ACT563	
	Toshiba	**TC74ACT563**	**(3836)**
MC74ACT564	Harris	CD74ACT564	
	National	74ACT564	
	Toshiba	**TC74ACT564**	**(3836)**
MC74ACT568	Motorola	MC74ACT569	
MC74ACT569	Motorola	MC74ACT568	
MC74ACT573	Harris	CD74ACT573	
	National	74ACT573	
	Toshiba	**TC74ACT573**	**(3836)**
MC74ACT574	Harris	CD74ACT574	
	National	74ACT574	
	Toshiba	**TC74ACT574**	**(3836)**
MC74ACT620	Harris	CD74ACT623	
	Motorola	MC74ACT623	
MC74ACT623	Harris	CD74ACT623	
	Motorola	MC74ACT620	
MC74ACT640	**Toshiba**	**TC74ACT640**	**(3836)**
MC74ACT646	Harris	CD74ACT646	
	National	74ACT646	
	Toshiba	**TC74ACT646**	**(3836)**
MC74ACT648	Harris	CD74ACT647	
		CD74ACT648	
	Toshiba	**TC74ACT648**	**(3836)**
MC74ACT652	Harris	CD74ACT652	
MC74ACT74	Harris	CD74ACT74	
	National	74ACT74	
	Toshiba	**TC74ACT74**	**(3836)**
MC74ACT810	National	74ACT818	
MC74ACT825	National	74ACT825	
	Toshiba	**TC74ACT825**	**(3836)**
MC74ACT843	National	74ACT843	
	Toshiba	**TC74ACT843**	**(3836)**
MC74ACT845	National	74ACT845	
MC74ACT86	Harris	CD74ACT86	
	Toshiba	**TC74ACT86**	**(3836)**
MC74AC00	Harris	CD74AC00	
	National	74ACT899	
		74AC00	
	Toshiba	**TC74AC00**	**(3836)**
			(Continued)
MC74AC02	Harris	CD74AC02	
	National	74AC02	
	Toshiba	**TC74AC02**	**(3836)**
MC74AC04	Harris	CD74AC04	
	National	74AC04	
	Toshiba	**TC74AC04**	**(3836)**
MC74AC05	Harris	CD74AC05	
	Toshiba	**TC74AC05**	**(3836)**
MC74AC08	Harris	CD74AC08	
	National	74AC08	
	Toshiba	**TC74AC08**	**(3836)**
MC74AC10	Harris	CD74AC10	
	National	74AC10	
	Toshiba	**TC74AC10**	**(3836)**
MC74AC109	Harris	CD74AC109	
	National	74AC109	
	Toshiba	**TC74AC109**	**(3836)**
MC74AC11	National	74AC11	
	Toshiba	**TC74AC11**	**(3836)**
MC74AC113	Philips	74AC11323	
	TI	74AC11323	
MC74AC125	National	74AC125	
	Toshiba	**TC74AC125**	**(3836)**
MC74AC126	**Toshiba**	**TC74AC126**	**(3836)**
MC74AC132	Harris	CD74AC138	
	Motorola	MC74AC138	
	National	74AC138	
	Toshiba	**TC74AC138**	**(3836)**
MC74AC138	Harris	CD74AC138	
	Motorola	MC74AC132	
	National	74AC138	
	Toshiba	**TC74AC138**	**(3836)**
MC74AC139	Harris	CD74AC139	
	National	74AC139	
	Toshiba	**TC74AC139**	**(3836)**
MC74AC14	Harris	CD74AC14	
	National	74AC14	
	Toshiba	**TC74AC14**	**(3836)**
MC74AC151	Harris	CD74AC151	
	National	74AC151	
	Toshiba	**TC74AC151**	**(3836)**
MC74AC153	Harris	CD74AC153	
	National	74AC153	
	Toshiba	**TC74AC153**	**(3836)**
MC74AC157	Harris	CD74AC157	
	National	74AC157	
	Toshiba	**TC74AC157**	**(3836)**
MC74AC158	Harris	CD74AC158	
	National	74AC158	
	Toshiba	**TC74AC158**	**(3836)**
MC74AC160	**Toshiba**	**TC74AC160**	**(3836)**
MC74AC161	Harris	CD74AC161	
	National	74AC161	
	Toshiba	**TC74AC161**	**(3836)**
MC74AC162	**Toshiba**	**TC74AC162**	**(3836)**
MC74AC163	Harris	CD74AC163	
	National	74AC163	
	Toshiba	**TC74AC163**	**(3836)**
MC74AC174	Harris	CD74AC174	
	National	74AC174	
	Toshiba	**TC74AC174**	**(3836)**
MC74AC190	Harris	CD74AC191	
	National	74AC191	
	Toshiba	**TC74AC191**	**(3836)**
MC74AC194	Harris	CD74AC193	
MC74AC20	Harris	CD74AC20	
	National	74AC20	
	Toshiba	TC74AC20	
MC74AC240	Harris	CD74AC238	
		CD74AC240	
	National	74AC240	
	Toshiba	**TC74AC240**	**(3836)**
MC74AC241	Harris	CD74AC241	
	National	74AC241	
	Toshiba	**TC74AC241**	**(3836)**
MC74AC244	Harris	CD74AC244	
	National	74AC244	
	Toshiba	**TC74AC244**	**(3836)**
MC74AC245	Harris	CD74AC245	
	National	74AC245	
	Toshiba	**TC74AC245**	**(3836)**
MC74AC251	Harris	CD74AC251	
	National	74AC251	
	Toshiba	**TC74AC251**	**(3836)**
MC74AC253	Harris	CD74AC253	
	National	74AC253	
	Toshiba	**TC74AC253**	**(3836)**
MC74AC256	Harris	CD74AC257	
	Motorola	MC74AC257	
	National	74AC257	
	Toshiba	**TC74AC257**	**(3836)**
MC74AC257	Harris	CD74AC257	
	Motorola	MC74AC256	
			(Continued)
MC74AC257			(Cont'd)
	National	74AC257	
	Toshiba	**TC74AC257**	**(3836)**
MC74AC258	Harris	CD74AC258	
	National	74AC258	
	Toshiba	**TC74AC258**	**(3836)**
MC74AC259	National	74AC269	
MC74AC273	Harris	CD74AC273	
	National	74AC2708	
		74AC273	
	Toshiba	**TC74AC273**	**(3836)**
MC74AC299	Harris	CD74AC297	
		CD74AC299	
	National	74AC299	
	Toshiba	**TC74AC299**	**(3836)**
MC74AC32	Harris	CD74AC32	
	National	74AC32	
	Toshiba	**TC74AC32**	**(3836)**
♦ MC74AC323	Harris	CD74AC323	
	Toshiba	**TC74AC323**	**(3836)**
MC74AC350	National	74AC350	
MC74AC352	Motorola	MC74AC353	
MC74AC353	Motorola	MC74AC352	
MC74AC373	Harris	CD74AC373	
	National	74AC373	
	Toshiba	**TC74AC373**	**(3836)**
MC74AC374	Harris	CD74AC374	
	National	74AC374	
	Toshiba	**TC74AC374**	**(3836)**
MC74AC377	National	74AC377	
	Toshiba	**TC74AC377**	**(3836)**
MC74AC378	National	74AC378	
MC74AC4020	National	74AC4024	
MC74AC4040	National	74AC520	
	Toshiba	**TC74AC520**	**(3836**
MC74AC521	National	74AC521	
	Toshiba	**TC74AC521**	**(3836**
MC74AC533	Harris	CD74AC533	
	Toshiba	TC74AC533	
MC74AC534	Harris	CD74AC534	
	Toshiba	**TC74AC534**	**(3836**
MC74AC540	Harris	CD74AC540	
	National	74AC540	
	Toshiba	**TC74AC540**	**(3836**
MC74AC541	Harris	CD74AC541	
	National	74AC541	
	Toshiba	**TC74AC541**	**(3836**
MC74AC563	Harris	CD74AC563	
	Toshiba	**TC74AC563**	**(3836**
MC74AC564	Harris	CD74AC564	
	Toshiba	**TC74AC564**	**(3836**
MC74AC568	Motorola	MC74AC569	
MC74AC569	Motorola	MC74AC568	
MC74AC573	Harris	CD74AC573	
	Toshiba	**TC74AC573**	**(3836**
MC74AC574	Harris	CD74AC574	
	National	74AC574	
	Toshiba	**TC74AC574**	**(3836**
MC74AC620	**Toshiba**	**TC74AC620**	**(3836**
MC74AC623	Harris	CD74AC623	
	Toshiba	**TC74AC623**	**(3836**
MC74AC640	**Toshiba**	**TC74AC640**	**(3836**
MC74AC643	**Toshiba**	**TC74AC643**	**(3836**
MC74AC646	Harris	CD74AC646	
	National	74AC646	
	Toshiba	**TC74AC646**	**(3836**
MC74AC648	Harris	CD74AC647	
		CD74AC648	
	National	74AC648	
	Toshiba	**TC74AC648**	**(3836**
MC74AC652	Harris	CD74AC652	
MC74AC657	**Toshiba**	**TC74AC670**	**(3836**
MC74AC74	Harris	CD74AC74	
	National	74AC74	
	Toshiba	**TC74AC74**	**(3836**
MC74AC810	Harris	CD74AC7623	
MC74AC825	National	74AC825	
	Toshiba	**TC74AC825**	**(3836**
MC74AC843	National	74AC843	
	Toshiba	**TC74AC841**	**(3836**
		TC74AC843	**(3836**
MC74AC845	National	74AC845	
MC74AC86	Harris	CD74AC86	
	National	74AC85	
		74AC86	
	Toshiba	**TC74AC86**	**(3836**
MC74BC00	TI	SN74AS95	
	Toshiba	**TD74BC00**	**(3836**
MC74BC08	**Toshiba**	**TD74BC08**	**(3836**
MC74BC230	**Toshiba**	**TD74BC230**	**(3836**
MC74BC231	**Toshiba**	**TD74BC231**	**(3836**
MC74BC240	**Toshiba**	**TD74BC240**	**(3836**
MC74BC241	**Toshiba**	**TD74BC241**	**(3836**
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♦ Discontinued

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MC74BC242	**Toshiba**	**TD74BC242**	**(3836)**
MC74BC243	**Toshiba**	**TD74BC243**	**(3836)**
MC74BC244	**Toshiba**	**TD74BC244**	**(3836)**
MC74BC32	**Toshiba**	**TD74BC32**	**(3836)**
MC74BC365	**Toshiba**	**TD74BC365**	**(3836)**
MC74BC366	**Toshiba**	**TD74BC366**	**(3836)**
MC74BC367	**Toshiba**	**TD74BC367**	**(3836)**
MC74BC368	**Toshiba**	**TD74BC368**	**(3836)**
MC74BC373	**Toshiba**	**TD74BC373**	**(3836)**
MC74BC374	**Toshiba**	**TD74BC374**	**(3836)**
MC74BC533	**Toshiba**	**TD74BC533**	**(3836)**
MC74BC534	Toshiba	TD74BC534	
MC74BC540	**Toshiba**	**TD74BC540**	**(3836)**
MC74BC541	**Toshiba**	**TD74BC541**	**(3836)**
MC74BC563	**Toshiba**	**TD74BC563**	**(3836)**
MC74BC564	Toshiba	TD74BC564	
MC74BC573	**Toshiba**	**TD74BC573**	**(3836)**
MC74BC574	Toshiba	TD74BC574	
MC74BC575	Toshiba	TD74BC575	
MC74BC620	**Toshiba**	**TD74BC620**	**(3836)**
MC74BC623	**Toshiba**	**TD74BC623**	**(3836)**
MC74BC640	**Toshiba**	**TD74BC640**	**(3836)**
MC74BC643	**Toshiba**	**TD74BC643**	**(3836)**
MC74BC645	**Toshiba**	**TD74BC645**	**(3836)**
MC74F00	Mitsubishi	M74F00	
	National	MM74C989	
		74F00	
	Philips	74F00	
	TI	SN74F00	
MC74F02	Mitsubishi	M74F02	
	National	74F02	
	Philips	74F02	
	TI	SN74F02	
MC74F04	Mitsubishi	M74F04	
	National	74F04	
	Philips	74F04	
	TI	SN74F04	
MC74F08	Mitsubishi	M74F08	
	National	74F08	
	Philips	74F08	
	TI	SN74F08	
MC74F10	Mitsubishi	M74F10	
	National	74F10	
	Philips	74F10	
	TI	SN74F09	
		SN74F10	
MC74F109	Mitsubishi	M74F109	
	National	74F109	
	Philips	74F109	
	TI	SN74F109	
MC74F11	Mitsubishi	M74F11	
	National	74F11	
	Philips	74F11	
	TI	SN74F11	
MC74F112	Mitsubishi	M74F112	
	National	74F112	
	Philips	74F112	
	TI	SN74F112	
MC74F113	National	74F113	
	Philips	74F113	
	TI	SN74F113	
MC74F114	National	74F114	
	Philips	74F114	
	TI	SN74F114	
MC74F1245	Philips	74F1244	
		74F1245	
MC74F125	Mitsubishi	M74F125	
	National	74F125	
	Philips	74F125	
	TI	SN74F125	
MC74F126	Philips	74F126	
	TI	SN74F126	
MC74F13	National	74F13	
	Philips	74F13	
MC74F132	National	74F132	
	Philips	74F132	
MC74F138	Mitsubishi	M74F138	
	National	74F138	
	Philips	74F133	
		74F138	
	TI	SN74F138	
MC74F139	Mitsubishi	M74F139	
	National	74F139	
	Philips	74F139	
MC74F14	Mitsubishi	M74F14	
	National	74F14	
	Philips	74F14	
MC74F148	National	74F148	
	Philips	74F148	
	TI	SN74F148	

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MC74F151	Mitsubishi	M74F151A	
	National	74F151	
		74F151A	
	Philips	N74F151	
		N74F151A	
		74F151	
	TI	SN74F151	
		SN74F151A	
MC74F153	Mitsubishi	M74F153	
	National	74F153	
	Philips	74F153	
	TI	SN74F153	
MC74F157	Mitsubishi	M74F157A	
	Motorola	MC74F157A	
	National	74F157	
		74F157A	
	Philips	74F154	
		74F157	
		74F157A	
	TI	SN74F157A	
MC74F157A	Mitsubishi	M74F157A	
	Motorola	MC74F157	
	National	74F157	
		74F157A	
	Philips	74F154	
		74F157	
		74F157A	
	TI	SN74F157A	
MC74F158	Mitsubishi	M74F158A	
	Motorola	MC74F158A	
	National	74F158	
		74F158A	
	Philips	N74F158A	
		74F158	
	TI	SN74F158A	
MC74F158A	Mitsubishi	M74F158A	
	Motorola	MC74F158	
	National	74F158	
		74F158A	
	Philips	N74F158A	
		74F158	
	TI	SN74F158A	
MC74F160A	National	74F160A	
	Philips	74F160A	
	TI	SN74F160A	
MC74F161A	Mitsubishi	M74F161A	
	National	74F161A	
	Philips	74F1604	
		74F161A	
	TI	SN74F161A	
MC74F162A	National	74F162A	
	Philips	74F162A	
	TI	SN74F162A	
MC74F163A	Mitsubishi	M74F163A	
	National	74F163A	
	Philips	74F163A	
	TI	SN74F163A	
MC74F164	Mitsubishi	M74F164	
	National	74F164	
		74F164A	
	Philips	74F164	
MC74F168	National	74F168	
	Philips	74F168	
	TI	SN74F168	
MC74F169	Mitsubishi	M74F169	
	National	74F169	
	Philips	74F169	
	TI	SN74F169	
MC74F174	Mitsubishi	M74F174	
	National	74F174	
	Philips	74F173	
		74F174	
	TI	SN74F174	
MC74F175	Mitsubishi	M74F175	
	National	74F175	
	Philips	74F175	
		74F175A	
	TI	SN74F175	
MC74F1803	Philips	74F1804	
MC74F181	National	74F181	
	Philips	74F181	
MC74F182	National	74F182	
	Philips	74F182	
♦ MC74F190	National	74F190	
	Philips	74F190	
	TI	SN74F190	
♦ MC74F191	National	74F191	
	Philips	74F191	
	TI	SN74F191	
♦ MC74F192	National	74F192	
	Philips	74F192	
	TI	SN74F192	

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♦ MC74F193	National	74F193	
	Philips	74F193	
	TI	SN74F193	
MC74F194	National	74F194	
	Philips	74F194	
MC74F195	Philips	74F195	
		74F195A	
MC74F20	Mitsubishi	M74F20	
	National	74F20	
	Philips	74F20	
	TI	SN74F20	
MC74F21	Motorola	MV74F21	
	TI	SN74F21	
MC74F240	Harris	CD74FCT240	
	Mitsubishi	M74F240	
	National	74F240	
	Philips	74F225	
		74F240	
		74F240A	
	TI	SN74F240	
MC74F241	Harris	CD74FCT241	
	Mitsubishi	M74F241	
	National	74F241	
	Philips	74F241	
		74F241A	
	TI	SN74F241	
MC74F242	National	74F242	
	Philips	74F242	
	TI	SN74F242	
MC74F243	National	74F243	
	Philips	74F243	
	TI	SN74F243	
MC74F244	Harris	CD74FCT244	
	Mitsubishi	M74F244	
	National	74F244	
	Philips	74F244	
		74F244B	
	TI	SN74F244	
MC74F245	Harris	CD74FCT245	
	Mitsubishi	M74F245	
	National	74F245	
	Philips	74F245	
	TI	SN74F245	
MC74F251	Mitsubishi	M74F251A	
	National	74F251	
		74F251A	
	Philips	N74F251A	
		74F251	
		74F251A	
	TI	SN74F251	
		SN74F251A	
MC74F253	Mitsubishi	M74F253	
	National	74F253	
	Philips	74F253	
	TI	SN74F253	
MC74F256	National	74F256	
	Philips	74F256	
MC74F257	Mitsubishi	M74F257A	
	Motorola	MC74F257A	
	National	74F257	
		74F257A	
	Philips	N74F257A	
		74F257	
		74F257A	
	TI	SN74F257	
MC74F257A	Mitsubishi	M74F257A	
	Motorola	MC74F257	
	National	74F257	
		74F257A	
	Philips	N74F257A	
		74F257	
		74F257A	
	TI	SN74F257	
MC74F258	Mitsubishi	M74F258A	
	Motorola	MC74F258A	
	National	74F258	
		74F258A	
	Philips	N74F258A	
		74F258	
		74F258A	
	TI	SN74F258	
MC74F258A	Mitsubishi	M74F258A	
	Motorola	MC74F258	
	National	74F258	
		74F258A	
	Philips	N74F258A	
		74F258	
		74F258A	
	TI	SN74F258	
MC74F259	National	74F259	
	Philips	74F259	
MC74F269	National	74F2645	
		74F269	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC74F269			(Cont'd)
	Philips	74F269	
MC74F273	Harris	CD74FCT273	
	National	74F273	
	Philips	74F273	
		74F273A	
	TI	SN74F273	
MC74F280	Mitsubishi	M74F280	
	National	74F280	
	Philips	74F280A	
		74F280B	
	TI	SN74F280A	
MC74F283	Mitsubishi	M74F283	
	National	74F283	
	Philips	74F283	
	TI	SN74F283	
MC74F29368	Philips	74F2952	
MC74F2960	Motorola	MC74F2960A	
	Philips	74F2953	
♦ MC74F2960-1x2			
	Motorola	MC74F2960	
		MC74F2960A	
♦ MC74F2960-1x2			
	Philips	74F2953	
MC74F2960A	Motorola	MC74F2960	
	Philips	74F2953	
MC74F2961A	Motorola	MC74F2962A	
MC74F2962A	Motorola	MC74F2961A	
♦ MC74F2969	Motorola	MC74F2968A	
♦ MC74F2970	National	74F298	
	Philips	74F298	
MC74F299	National	74F299	
	Philips	74F299	
	TI	SN74F299	
MC74F32	Mitsubishi	M74F32	
	National	74F32	
	Philips	74F32	
	TI	SN74F32	
MC74F323	National	74F323	
	Philips	74F323	
	TI	SN74F323	
MC74F350	National	74F350	
	Philips	74F350	
	TI	SN74F350	
MC74F352	Mitsubishi	M74F352	
	National	74F352	
	Philips	74F352	
	TI	SN74F352	
MC74F353	Mitsubishi	M74F353	
	National	74F353	
	Philips	74F353	
	TI	SN74F353	
MC74F365	National	74F365	
	Philips	74F365	
	TI	SN74F36	
MC74F366	National	74F366	
	Philips	74F366	
MC74F367	Philips	74F367	
MC74F368	National	74F368	
	Philips	74F368	
MC74F37	National	74F37	
	Philips	74F37	
	TI	SN74F37	
MC74F373	Harris	CD74FCT373	
	Mitsubishi	M74F373	
	National	74F373	
	Philips	74F373	
	TI	SN74F373	
MC74F374	Harris	CD74FCT374	
	Mitsubishi	M74F374	
	National	74F374	
	Philips	74F374	
	TI	SN74F374	
MC74F377	National	74F377	
	Philips	74F377	
		74F377A	
	TI	SN74F377	
MC74F378	National	74F378	
	Philips	74F378	
	TI	SN74F378	
MC74F379	National	74F379	
	Philips	74F379	
	TI	SN74F379	
MC74F38	National	74F38	
	Philips	74F38	
	TI	SN74F38	
MC74F381	National	74F381	
	Philips	74F381	
	TI	SN74F381	
MC74F382	National	74F382	
	Philips	74F382	
	TI	SN74F382	
MC74F3893A	Philips	74F3893	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74F398	National	74F398	
	Philips	74F398	
MC74F399	National	74F399	
	Philips	74F399	
MC74F40	National	74F40	
	Philips	74F40	
	TI	SN74F40	
MC74F51	National	74F51	
	Philips	74F5074	
		74F51	
	TI	SN74F51	
MC74F521	Mitsubishi	M74F521	
	National	74F521	
	Philips	74F521	
	TI	SN74F521	
MC74F533	Harris	CD74FCT533	
	National	74F533	
	Philips	74F533	
	TI	SN74F533	
MC74F534	Harris	CD74FCT534	
	National	74F534	
	Philips	74F534	
	TI	SN74F534	
MC74F537	National	74F537	
	Philips	74F537	
MC74F538	National	74F538	
	Philips	74F538	
MC74F539	National	74F539	
	Philips	74F539	
MC74F543	Harris	CD74FCT543	
	Mitsubishi	M74F543	
	National	74F543	
	Philips	74F543	
	TI	SN74F543	
MC74F544	National	74F544	
	Philips	74F544	
	TI	SN74F544	
MC74F568	National	74F568	
	Philips	74F568	
	TI	SN74F568	
MC74F569	National	74F569	
	Philips	74F569	
	TI	SN74F569	
MC74F574	Mitsubishi	M74F574	
	National	74F574	
	Philips	N74F574	
	TI	SN74F574	
MC74F579	National	74F579	
	Philips	74F579	
MC74F620	National	74F620	
	Philips	74F620	
	TI	SN74F620	
♦ MC74F621	Philips	74F621	
	TI	SN74F621	
MC74F623	Harris	CD74FCT623	
	National	74F623	
	Philips	74F623	
	TI	SN74F623	
MC74F64	National	74F632	
		74F64	
	Philips	74F64	
	TI	SN74F64	
MC74F640	National	74F640	
	Philips	74F640	
♦ MC74F643	National	74F643	
♦ MC74F645	National	74F645	
MC74F646	Mitsubishi	M74F646	
	National	74F646	
	Philips	N74F646A	
		74F646	
		74F646A	
	TI	SN74F646	
MC74F648	Mitsubishi	M74F648	
	National	74F648	
	Philips	N74F648A	
		74F647	
		74F648	
		74F648A	
MC74F657A	Motorola	MC74F657B	
	National	74F657	
	Philips	74F657	
	TI	SN74F657	
MC74F657B	Motorola	MC74F657A	
	National	74F657	
	Philips	74F657	
	TI	SN74F657	
MC74F74	Mitsubishi	M74F74	
	National	74F74	
	Philips	74F74	
	TI	SN74F74	

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74F779	National	74F779	
	Philips	N74F777	
		74F779	
MC74F803	National	74F794	
MC74F827	Harris	CD74FCT827	
	National	74F827	
	Philips	N74F827	
		74F826	
		74F827	
MC74F828	Harris	CD74FCT828	
	National	74F828	
	Philips	N74F828	
		74F828	
MC74F85	Philips	74F85	
MC74F86	Mitsubishi	M74F86	
	National	74F86	
	Philips	74F86	
	TI	SN74F86	
♦ MC74HCT00	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	Philips	74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
MC74HCT00A	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	National	MM74HCT00	
	Philips	74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
♦ MC74HCT03	GoldStar	GD74HCT03	
	Harris	CD74HCT03	
	National	MM74HCT03	
	Philips	74HCT03	
♦ MC74HCT04	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	Philips	74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
MC74HCT04A	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	National	MM74HCT04	
	Philips	74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
♦ MC74HCT05	GoldStar	GD74HCT05	
MC74HCT08A	GoldStar	GD74HCT08	
	Harris	CD74HCT08	
	National	MM74HCT08	
	Philips	74HCT08	
	TI	SN74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
MC74HCT138A	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
MC74HCT14A	Harris	CD74HCT14	
	Philips	74HCT14	
♦ MC74HCT157	GoldStar	GD74HCT157	
	Harris	CD74HCT157	
	Motorola	MC74HCT157A	
	National	MM74HCT157	
	Philips	74HCT157	
	SGS-Thomson	M74HCT157	
	Toshiba	**TC74HCT157A**	**(3836)**
MC74HCT157A	GoldStar	GD74HCT157	
	Harris	CD74HCT157	
	National	MM74HCT157	
	Philips	74HCT157	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HCT157A			(Cont'd)
	SGS-Thomson	M74HCT157	
	Toshiba	**TC74HCT157A**	**(3836)**
♦ MC74HCT158	GoldStar	GD74HCT158	
	Harris	CD74HCT158	
	Motorola	MC74HCT158A	
	National	MM74HCT158	
	Philips	74HCT158	
	SGS-Thomson	M74HCT158	
	Toshiba	**TC74HCT158A**	**(3836)**
MC74HCT158A	GoldStar	GD74HCT158	
	Harris	CD74HCT158	
	National	MM74HCT158	
	Philips	74HCT158	
	SGS-Thomson	M74HCT158	
	Toshiba	**TC74HCT158A**	**(3836)**
MC74HCT161A	GoldStar	GD74HCT161	
	Harris	CD74HCT161	
	Philips	74HCT161	
MC74HCT163A	GoldStar	GD74HCT163	
	Harris	CD74HCT163	
	Philips	74HCT163	
♦ MC74HCT166	Harris	CD74HCT166	
	National	MM74HCT166	
	Philips	74HCT166	
MC74HCT174A	GoldStar	GD74HCT174	
	Harris	CD74HCT174	
	Philips	74HCT174	
	Toshiba	TC74HCT174A	
MC74HCT240A	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
MC74HCT241A	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
MC74HCT244A	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
MC74HCT245A	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HCT273A			
	GoldStar	GD74HCT273	
	Harris	CD74HCT273	
	Mitsubishi	M74HCT273-1	
	National	MM74HCT273	
	Philips	74HCT273	
	Toshiba	**TC74HCT273A**	**(3836)**
MC74HCT32A	GoldStar	GD74HCT32	
	Harris	CD74HCT32	
	National	MM74HCT32	
	Philips	74HCT32	
	TI	SN74HCT32	
	Toshiba	**TC74HCT32A**	**(3836)**
♦ MC74HCT34	GoldStar	GD74HCT34	
	National	MM74HCT34	
MC74HCT373A			
	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
MC74HCT374A			
	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
MC74HCT533A			
	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
MC74HCT534A			
	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
MC74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
	Harris	CD74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(3836)**
MC74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
	Harris	CD74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(3836)**
♦ MC74HCT550	GEC Plessey	MV74HCT545	
♦ MC74HCT551	Philips	74HCT5555	
MC74HCT573A			
	GEC Plessey	MV74HCT573	
		74HCT573	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HCT573A			(Cont'd)
	Harris	CD74HCT573	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
MC74HCT574A	GEC Plessey	MV74HCT574 74HCT574	
	Harris	CD74HCT574	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**
MC74HCT620	TI	SN74HCT620	
MC74HCT623	TI	SN74HCT623	
MC74HCT640A	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	National	MM74HCT640	
	Philips	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
	Universal	US74HCT640	
MC74HCT643	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	Philips	74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
MC74HCT646	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
MC74HCT74A	GoldStar	GD74HCT74	
	Harris	CD74HCT74	
	National	MM74HCT74	
	Philips	74HCT74	
	SGS-Thomson	M74HCT74	
	TI	SN74HCT74	
	Toshiba	**TC74HCT74A**	**(3836)**
MC74HC00A	GoldStar	GD74HC00	
	Harris	CD74HC00	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
MC74HC02A	GoldStar	GD74HC02	
	Harris	CD74HC02	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
MC74HC03A	GoldStar	GD74HC03	
	Harris	CD74HC03	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
MC74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
MC74HC04A	GoldStar	GD74HC04	
	Harris	CD74HC04	
	National	MM74HC04	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HC04A			(Cont'd)
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
◆ MC74HC05	GoldStar	GD74HC05	
	National	MM74HC05	
	TI	SN74HC05	
	Toshiba	**TC74HC05A**	**(3836)**
MC74HC08A	GoldStar	GD74HC08	
	Harris	CD74HC08	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
MC74HC10	Harris	CD74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
MC74HC107	Harris	CD74HC107	
	National	MM74HC107	
	Philips	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
MC74HC109	Harris	CD74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
MC74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
MC74HC112	Harris	CD74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
MC74HC113	Mitsubishi	M74HC113	
	National	MM74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	**(3836)**
◆ MC74HC123A	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123 MM74HC123A	
◆ MC74HC123A	Philips	74HC123	
	SGS-Thomson	M74HC123 M74HC123A	
◆ MC74HC123A	Toshiba	TC74HC123 TC74HC123A	
MC74HC125A	GoldStar	GD74HC125	
	Harris	CD74HC125	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
MC74HC126A	GoldStar	GD74HC126	
	Harris	CD74HC126	
	National	MM74HC126	
	Philips	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
MC74HC132A	GoldStar	GD74HC132	
	Harris	CD74HC132	

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HC132A			(Cont'd)
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A** **TC74HC132A**	**(3836)** **(3836)**
MC74HC133	National	MM74HC133	
	SGS-Thomson	M74HC133	
	TI	SN74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
MC74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
MC74HC138A	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
MC74HC139A	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
MC74HC14A	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
MC74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
MC74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	National	MM74HC149 MM74HC151	
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
MC74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
MC74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HC157A	GoldStar	GD74HC157	
	Harris	CD74HC157	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
MC74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
MC74HC161A	GoldStar	GD74HC161	
	Harris	CD74HC161	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
MC74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
MC74HC163A	GoldStar	GD74HC163	
	Harris	CD74HC163	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
MC74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
MC74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
◆ MC74HC166	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
MC74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
MC74HC174A	GoldStar	GD74HC174	
	Harris	CD74HC174	
	National	MM74HC174	
	Philips	74HC174	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HC174A			(Cont'd)
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
MC74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
◆ MC74HC181	Harris	CD74HC181	
	National	MM74HC181	
	Philips	74HC181	
	SGS-Thomson	M74HC181	
	Toshiba	**TC74HC181A**	**(3836)**
◆ MC74HC182	Harris	CD74HC182	
	National	MM74HC182	
	Philips	74HC182	
	SGS-Thomson	M74HC182	
	Toshiba	**TC74HC182A**	**(3836)**
◆ MC74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
◆ MC74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
◆ MC74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
◆ MC74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
MC74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
MC74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
			(Continued)
MC74HC195			(Cont'd)
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
MC74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
◆ MC74HC221A	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
◆ MC74HC221A	**Toshiba**	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
MC74HC237	Harris	CD74HC22106	
		CD74HC237	
	Mitsubishi	M74HC237	
	National	MM74HC237	
	Philips	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
◆ MC74HC239	TI	SN74HC239	
MC74HC240A	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
MC74HC241A	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
MC74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
MC74HC244A	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
MC74HC245A	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
	National	MM74HC245	
		MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
MC74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	National	MM74HC251	
	Philips	74HC251	
			(Continued)
MC74HC251			(Cont'd)
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
MC74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
MC74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
◆ MC74HC258	Harris	CD74HC258	
	National	MM74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
MC74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
◆ MC74HC266	Mitsubishi	M74HC266	
		M74HC266A	
◆ MC74HC266	National	MM74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	**(3836)**
MC74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
MC74HC273A	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
MC74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
◆ MC74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	**(3836)**
◆ MC74HC292	SGS-Thomson	M74HC292	
◆ MC74HC294	SGS-Thomson	M74HC294	
			(Continued)
MC74HC298	National	MM74HC298	
	SGS-Thomson	M74HC298	
	TI	SN74HC298	
	Toshiba	**TC74HC298A**	**(3836)**
MC74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836**
MC74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836**
MC74HC32A	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836**
MC74HC354	Harris	CD74HC354	
	National	MM74HC354	
	Philips	74HC354	
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	**(3836**
◆ MC74HC356	Harris	CD74HC356	
	National	MM74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	**(3836**
MC74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836**
MC74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	National	MM74HC366	
	Philips	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836**
MC74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836**
MC74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836**
MC74HC373A	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
			(Continued

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HC373A			(Cont'd)
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
MC74HC374A	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
◆ MC74HC386	SGS-Thomson	M74HC386	
	TI	SN74HC386	
	Toshiba	**TC74HC386A**	**(3836)**
MC74HC390	Harris	CD74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
MC74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
MC74HC4002	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	**(3836)**
MC74HC4016	Harris	CD74HC4016	
	National	MM74HC4016	
	Philips	74HC4016	
	TI	TLC4016	
	Toshiba	**TC74HC4016A**	**(3836)**
MC74HC4017	Harris	CD74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	**(3836)**
MC74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
MC74HC4024	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836)**
MC74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836)**
MC74HC4046A	Harris	CD74HC4046A	
	National	MM74HC4046	
	Philips	74HC4046A	
MC74HC4049	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	National	MM74HC4049	(Continued)
MC74HC4049			(Cont'd)
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
MC74HC4050	Harris	CD74HC4050	
	Mitsubishi	M74HC4050B	
	National	MM74HC4050	
	Philips	74HC4050	
	SGS-Thomson	M74HC4050	
	Toshiba	**TC74HC4050A**	**(3836)**
MC74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
MC74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
MC74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
MC74HC4060	Harris	CD74HC4060	
	National	MM74HC4060	
	Philips	74HC4060	
	SGS-Thomson	M74HC4060	
	TI	SN74HC4060	
	Toshiba	**TC74HC4060A**	**(3836)**
MC74HC4066	Harris	CD74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
		TLC4066	
	Toshiba	**TC74HC4066A**	**(3836)**
MC74HC4075	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	**(3836)**
MC74HC4078	Mitsubishi	M74HC4078	
	National	MM74HC4078	
	SGS-Thomson	M74HC4078	
	TI	SN74HC4078A	
	Toshiba	**TC74HC4078A**	**(3836)**
MC74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
◆ MC74HC423A	Harris	CD74HC423	
	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423	
		M74HC423A	
◆ MC74HC423A	Toshiba	TC74HC423	
		TC74HC423A	**(3836)**
MC74HC4316	Harris	CD74HC4316	
	National	MM74HC4316	
	Philips	74HC4316	(Continued)
MC74HC4316			(Cont'd)
	SGS-Thomson	M74HC4316	
	Toshiba	**TC74HC4316A**	**(3836)**
MC74HC4351	Harris	CD74HC4351	
	Philips	74HC4351	
	SGS-Thomson	M74HC4351	
	Toshiba	**TC74HC4351A**	**(3836)**
MC74HC4352	Harris	CD74HC4352	
	Philips	74HC4352	
	SGS-Thomson	M74HC4352	
	Toshiba	**TC74HC4352A**	**(3836)**
MC74HC4353	Harris	CD74HC4353	
	Philips	74HC4353	
	SGS-Thomson	M74HC4353	
	Toshiba	**TC74HC4353A**	**(3836)**
MC74HC4511	Harris	CD74HC4511	
	National	MM74HC4511	
	Philips	74HC4511	
	SGS-Thomson	M74HC4511	
	Toshiba	**TC74HC4511A**	**(3836)**
MC74HC4514	Harris	CD74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
◆ MC74HC4515	Harris	CD74HC4515	
	Philips	74HC4515	
	TI	SN74HC4515	
	Toshiba	**TC74HC4515A**	**(3836)**
MC74HC4538A	Harris	CD74HC4538	
	National	MM74HC4538	
	Philips	74HC4538	
	SGS-Thomson	M74HC4538	
	Toshiba	**TC74HC4538A**	**(3836)**
◆ MC74HC4543	Harris	CD74HC4543	
	National	MM74HC4543	
	Philips	74HC4543	
	SGS-Thomson	M74HC4543	
	Toshiba	TC74HC4543A	
MC74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
MC74HC533A	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
	National	MM74HC521	
		MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
MC74HC534A	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
MC74HC540	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	(Continued)
MC74HC540			(Cont'd)
	Toshiba	TC74HC5353A	
		TC74HC540A	**(3836)**
MC74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	National	MM74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
MC74HC563	Harris	CD74HC563	
	National	MM74HC563	
	Philips	74HC5555	
		74HC563	
	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
MC74HC564	Harris	CD74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
MC74HC573A	Harris	CD74HC573	
	National	MM74HC573	
	Philips	74HC573	
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
MC74HC574A	Harris	CD74HC574	
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
MC74HC58	GoldStar	GD74HC58	
	National	MM74HC58	
MC74HC589	National	MM74HC589	
◆ MC74HC590	National	MM74HC590	
	SGS-Thomson	M74HC590	
	TI	SN74HC590A	
	Toshiba	**TC74HC590A**	**(3836)**
◆ MC74HC592	National	MM74HC592	
	SGS-Thomson	M74HC592	
	Toshiba	**TC74HC592A**	**(3836)**
◆ MC74HC593	National	MM74HC593	
	SGS-Thomson	M74HC593	
	Toshiba	**TC74HC593A**	**(3836)**
MC74HC595A	Mitsubishi	M74HC595	
	National	MM74HC595	
	SGS-Thomson	M74HC595	
	TI	SN74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
MC74HC597	Harris	CD74HC597	
	National	MM74HC597	
	Philips	74HC597	
	SGS-Thomson	M74HC597	
	Toshiba	TC74HC597A	
◆ MC74HC620	National	MM74HC620	
	SGS-Thomson	M74HC620	
	TI	SN74HC620	
	Toshiba	**TC74HC620A**	**(3836)**
◆ MC74HC623	National	MM74HC623	
	SGS-Thomson	M74HC623	
	TI	SN74HC623	
	Toshiba	**TC74HC623A**	**(3836)**
MC74HC640A	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
	National	MM74HC640	
	Philips	74HC640	(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC74HC640A			(Cont'd)
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	(3836)
♦ MC74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643 M74HC643-1	
♦ MC74HC643	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
MC74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	(3836)
MC74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	(3836)
♦ MC74HC651	Harris	CD74HC651	
	SGS-Thomson	M74HC651	
	TI	SN74HC651	
	Toshiba	**TC74HC651A**	(3836)
♦ MC74HC652	Harris	CD74HC652	
	SGS-Thomson	M74HC652	
	TI	SN74HC652	
	Toshiba	**TC74HC652A**	(3836)
MC74HC670	Harris	CD74HC670	
	Philips	74HC670	
	SGS-Thomson	M74HC670	
	Toshiba	**TC74HC670A**	(3836)
MC74HC688	Harris	CD74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	(3836)
MC74HC7266	Harris	CD74HC7266	
	National	MM74HC7266	
	Philips	74HC7266	
	SGS-Thomson	M74HC7266	
	TI	SN74HC7266	
	Toshiba	**TC74HC7266A**	(3836)
MC74HC73	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	National	MM74HC73	
	Philips	74HC73	
	SGS-Thomson	M74HC73	
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	(3836)
♦ MC74HC7373	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	(3836)
MC74HC74A	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
			(Continued)
MC74HC74A			(Cont'd)
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	(3836)
MC74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	(3836)
♦ MC74HC7533	Philips	74HC7540	
♦ MC74HC7563	Philips	74HC7541	
♦ MC74HC7573	Philips	74HC7597	
MC74HC76	Mitsubishi	M74HC76	
	National	MM74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	(3836)
MC74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1 M74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	(3836)
MC74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	(3836)
♦ MC74HC9000	Philips	74HC9014	
♦ MC74HC9014	Philips	74HC9014	
♦ MC74HC9015	Philips	74HC9015	
♦ MC74HC9114	Philips	74HC9114	
♦ MC74HC9115	Philips	74HC9115	
♦ MC74HC9373	National	MM74HC942	
♦ MC74H00	**Lansdale**	**ML74H00** SL74H00	(3669)
♦ MC74H00	Rochester	74H00	
♦ MC74H01	**Lansdale**	**ML74H01** SL74H01	(3669)
♦ MC74H01	Rochester	74H01	
♦ MC74H02	Lansdale	ML74H02	
♦ MC74H04	**Lansdale**	**ML74H04**	(3669)
	Rochester	74H04	
♦ MC74H05	**Lansdale**	**ML74H05**	(3669)
♦ MC74H08	**Lansdale**	**ML74H08** SL74H08	(3669)
♦ MC74H08	Rochester	74H08	
♦ MC74H10	**Lansdale**	**ML74H10** SL74H10	(3669)
♦ MC74H10	Rochester	74H10	
♦ MC74H101	**Lansdale**	**ML74H101** SL74H101	(3669)
♦ MC74H101	Rochester	74H101	
♦ MC74H102	Lansdale	ML74H102 SL74H102	
♦ MC74H102	Rochester	74H102	
♦ MC74H103	**Lansdale**	**ML74H103** SL74H103	(3669)
♦ MC74H103	Rochester	74H103	
♦ MC74H106	Rochester	74H106	
♦ MC74H108	**Lansdale**	**ML74H108** SL74H108	(3669)
♦ MC74H108	Rochester	74H108	
♦ MC74H11	**Lansdale**	**ML74H11** SL74H11	(3669)
♦ MC74H11	Rochester	74H11	
♦ MC74H116	Lansdale	ML74H116	
♦ MC74H117	Lansdale	ML74H117	
♦ MC74H119	Lansdale	ML74H119	
♦ MC74H12	Lansdale	ML74H12	
♦ MC74H120	Lansdale	ML74H120	
♦ MC74H20	**Lansdale**	**ML74H20** SL74H20	(3669)
♦ MC74H20	Rochester	74H20	
♦ MC74H21	**Lansdale**	**ML74H21** SL74H21	(3669)
♦ MC74H21	Rochester	74H21	
♦ MC74H22	**Lansdale**	**ML74H22** SL74H22	(3669)
♦ MC74H22	Rochester	74H22	
♦ MC74H28	Lansdale	ML74H28	
♦ MC74H29	Lansdale	ML74H29	
			(Continued)
♦ MC74H30	**Lansdale**	**ML74H30** SL74H30	(3669)
♦ MC74H30	Rochester	74H30	
♦ MC74H31	Lansdale	ML74H31	
♦ MC74H32	Lansdale	ML74H32	
♦ MC74H36	Lansdale	ML74H36	
♦ MC74H39	Lansdale	ML74H39	
♦ MC74H40	**Lansdale**	**ML74H40** SL74H40	(3669)
♦ MC74H40	Rochester	74H40	
♦ MC74H50	**Lansdale**	**ML74H50**	(3669)
	Rochester	74H50	
♦ MC74H51	**Lansdale**	**ML74H51**	(3669)
	Rochester	74H51	
♦ MC74H52	**Lansdale**	**ML74H52** SL74H52	(3669)
♦ MC74H52	Rochester	74H52	
♦ MC74H53	**Lansdale**	**ML74H53** SL74H53	(3669)
♦ MC74H53	Rochester	74H53	
♦ MC74H54	**Lansdale**	**ML74H54** SL74H54	(3669)
♦ MC74H54	Rochester	74H54	
♦ MC74H55	**Lansdale**	**ML74H55** SL74H55	(3669)
♦ MC74H55	Rochester	74H55	
♦ MC74H60	Lansdale	ML74H60 SL74H60	
♦ MC74H60	Rochester	74H60	
♦ MC74H61	**Lansdale**	**ML74H61** SL74H61	(3669)
♦ MC74H61	Rochester	74H61	
♦ MC74H62	**Lansdale**	**ML74H62** SL74H62	(3669)
♦ MC74H62	Rochester	74H62	
♦ MC74H71	Lansdale	ML74H71 SL74H71	
♦ MC74H71	Rochester	74H71	
♦ MC74H72	**Lansdale**	**ML74H72** SL74H72	(3669)
♦ MC74H72	Rochester	74H72	
♦ MC74H73	**Lansdale**	**ML74H73** SL74H73	(3669)
♦ MC74H73	Rochester	74H73	
♦ MC74H74	**Lansdale**	**ML74H74** SL74H74	(3669)
♦ MC74H74	Rochester	74H74	
♦ MC74H76	Rochester	74H76	
♦ MC74H78	Rochester	74H78	
♦ MC74H79	Lansdale	ML54H79 ML74H79	
♦ MC74H86	Lansdale	ML74H86	
♦ MC74H87	**Lansdale**	**ML74H87**	(3669)
	Rochester	74H87	
♦ MC74H89	Lansdale	ML74H89	
MC74LS249	National	74LS249	
	SGS-Thomson	T74LS248B1	
♦ MC7400	**Lansdale**	**ML7400**	(3668)
♦ MC7401	**Lansdale**	**ML7401** SL7401	(3668)
♦ MC7401	Rochester	7401	
♦ MC7402	**Lansdale**	**ML7402** SL7402	(3668)
♦ MC7403	**Lansdale**	**ML7403**	(3668)
MC7404	**Lansdale**	**ML7404**	(3668)
♦ MC7405	**Lansdale**	**ML7405**	(3668)
♦ MC7406	**Lansdale**	**ML7406**	(3668)
	Rochester	7406	
♦ MC7407	**Lansdale**	**ML7407**	(3668)
	Rochester	7407	
♦ MC7408	**Lansdale**	**ML7408**	(3668)
	Rochester	7408	
♦ MC7409	**Lansdale**	**ML7409** SL7409	(3668)
♦ MC7410	**Lansdale**	**ML7410**	(3668)
	Rochester	7410	
♦ MC74100	**Lansdale**	**ML74100** SL74100	(3669)
♦ MC74107	**Lansdale**	**ML74107**	(3669)
♦ MC7412	Lansdale	ML7412	
	Rochester	7412	
♦ MC74120	**Lansdale**	**ML74120**	(3669)
♦ MC74121	**Lansdale**	**ML74121**	(3669)
♦ MC74122	**Lansdale**	**ML74122**	(3669)
♦ MC74123	**Lansdale**	**ML74123**	(3669)
♦ MC74125	Rochester	74125	
♦ MC74128	Lansdale	ML74128	
♦ MC7413	**Lansdale**	**ML7413**	(3668)
	Rochester	7413	
♦ MC74132	**Lansdale**	**ML74132**	(3669)
	Rochester	74132	
♦ MC74136	**Lansdale**	**ML74136**	(3669)
			(Continued)
♦ MC7414	**Lansdale**	**ML7414**	(3668)
	Rochester	7414	
♦ MC74141	Lansdale	ML74141	
	Rochester	74141	
♦ MC74145	Lansdale	ML74145	
♦ MC74150	**Lansdale**	**ML74150**	(3669)
♦ MC74151	**Lansdale**	**ML74151**	(3669)
♦ MC74152	**Lansdale**	**ML74152** SL74152	(3669)
♦ MC74152	Rochester	74152	
♦ MC74153	**Lansdale**	**ML74153**	(3669)
	Rochester	74153	
♦ MC74154	**Lansdale**	**ML74154**	(3669)
♦ MC74155	**Lansdale**	**ML74155**	(3669)
♦ MC74156	Lansdale	ML74156	
	Rochester	74156	
♦ MC74157	Rochester	74157	
♦ MC7416	**Lansdale**	**ML7416**	(3668)
♦ MC74160	**Lansdale**	**ML74160**	(3669)
	Rochester	74160	
♦ MC74161	**Lansdale**	**ML74161**	(3669)
♦ MC74162	**Lansdale**	**ML74162**	(3669)
	Rochester	74162	
♦ MC74163	**Lansdale**	**ML74163**	(3669)
	Rochester	74163	
♦ MC74164	Lansdale	ML74164	
	Rochester	74164	
♦ MC74164A	Lansdale	ML74164A	
♦ MC74165	**Lansdale**	**ML74165**	(3669)
	Rochester	74165	
♦ MC74166	Lansdale	ML74166	
	Rochester	74166	
♦ MC74167	**Lansdale**	**ML74167**	(3669)
	Rochester	74167	
♦ MC7417	**Lansdale**	**ML7417**	(3668)
♦ MC74174	**Lansdale**	**ML74174**	(3669)
♦ MC74175	**Lansdale**	**ML74175**	(3669)
	Rochester	74175	
♦ MC74176	**Lansdale**	**ML74176**	(3669)
	Rochester	74176	
♦ MC74177	**Lansdale**	**ML74177**	(3669)
	Rochester	74177	
♦ MC74178	Lansdale	ML74178	
	Rochester	74178	
♦ MC74179	Lansdale	ML74179	
	Rochester	74179	
♦ MC74180	**Lansdale**	**ML74180**	(3669)
	Rochester	74181	
♦ MC74181	**Lansdale**	**ML74181**	(3669)
♦ MC74182	**Lansdale**	**ML74182** SL74182	(3669)
♦ MC74190	**Lansdale**	**ML74190**	(3669)
	Rochester	74190	
♦ MC74191	**Lansdale**	**ML74191**	(3669)
♦ MC74192	**Lansdale**	**ML74192**	(3669)
	Rochester	74192	
♦ MC74193	**Lansdale**	**ML74193**	(3669)
	Rochester	74193	
♦ MC74194	**Lansdale**	**ML74194**	(3669)
	Rochester	74194	
♦ MC74195	**Lansdale**	**ML74195**	(3669)
	Rochester	74195	
♦ MC74196	**Lansdale**	**ML74196**	(3669)
	Rochester	74196	
♦ MC74197	**Lansdale**	**ML74197**	(3669)
♦ MC74198	Lansdale	ML74198 SL74198	
♦ MC74199	Lansdale	ML74199	
♦ MC7420	**Lansdale**	**ML7420**	(3668)
	Rochester	7420	
♦ MC7423	**Lansdale**	**ML7423**	(3668)
♦ MC7425	**Lansdale**	**ML7425**	(3668)
	Rochester	7425	
♦ MC7426	**Lansdale**	**ML7426**	(3668)
♦ MC7427	**Lansdale**	**ML7427**	(3668)
♦ MC74279	Lansdale	ML74279	
♦ MC7428	Lansdale	ML7428	
♦ MC74290	**Lansdale**	**ML74290**	(3669)
♦ MC74293	**Lansdale**	**ML74293**	(3669)
♦ MC74298	**Lansdale**	**ML74298**	(3669)
♦ MC7430	**Lansdale**	**ML7430**	(3668)
	Rochester	7430	
♦ MC7437	**Lansdale**	**ML7437**	(3668)
	Rochester	7437	
♦ MC7438	**Lansdale**	**ML7438**	(3668)
	Rochester	7438	
MC7440	**Lansdale**	**ML7440**	(3668)
♦ MC7440	**Lansdale**	**ML7440**	(3668)
♦ MC7441A	Lansdale	ML7441A	
♦ MC7442	**Lansdale**	**ML7442**	(3668)
♦ MC7442A	Lansdale	ML7442A	
♦ MC7443	**Lansdale**	**ML7443**	(3668)
♦ MC7444	**Lansdale**	**ML7444**	(3668)
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC7445	Lansdale	ML7445	
MC7446	Lansdale	ML7446	
	Rochester	7446	
MC7447	Lansdale	ML7447	
		SL7447	
MC7448	Lansdale	ML7448	
		SL7448	
MC7448	Rochester	7448	
MC7449	Lansdale	ML7449	
MC7450	**Lansdale**	**ML7450**	**(3668)**
	Rochester	7450	
MC7451	**Lansdale**	**ML7451**	**(3668)**
MC7453	**Lansdale**	**ML7453**	**(3668)**
		SL7453	
MC7453	Rochester	7453	
MC7454	**Lansdale**	**ML7454**	**(3668)**
		SL7454	
MC7454	Rochester	7454	
MC7460	Lansdale	ML7460	
		SL7460	
MC7460	Rochester	7460	
MC7470	**Lansdale**	**ML7470**	**(3668)**
		SL7470	
MC7470	Rochester	7470	
MC7472	**Lansdale**	**ML7472**	**(3668)**
		SL7472	
MC7472	Rochester	7472	
MC7473	**Lansdale**	**ML7473**	**(3668)**
MC7474	**Lansdale**	**ML7474**	**(3668)**
	Rochester	7474	
MC7475	**Lansdale**	**ML7475**	**(3668)**
	Rochester	7475	
MC7476	**Lansdale**	**ML7476**	**(3668)**
	Rochester	7476	
MC7477	**Lansdale**	**ML7477**	**(3668)**
MC7479	**Lansdale**	**ML7479**	**(3668)**
MC748	TI	μA748	
MC7480	**Lansdale**	**ML7480**	**(3668)**
		SL7480	
MC7481	Lansdale	ML7481	
MC7483	**Lansdale**	**ML7483**	**(3668)**
	Rochester	7483	
MC7484	Lansdale	ML7484	
MC7485	**Lansdale**	**ML7485**	**(3669)**
	Rochester	7485	
MC7486	**Lansdale**	**ML7486**	**(3669)**
	Rochester	7486	
MC7490	Lansdale	ML7490	
MC7490A	**Lansdale**	**ML7490A**	**(3669)**
MC7491	Rochester	7491	
MC7491A	**Lansdale**	**ML7491A**	**(3669)**
MC7492	Lansdale	ML7492	
	Rochester	7492	
MC7492A	**Lansdale**	**ML7492A**	**(3669)**
MC7493	Lansdale	ML7493	
	Rochester	7493	
MC7493A	**Lansdale**	**ML7493A**	**(3669)**
MC7494	**Lansdale**	**ML7494**	**(3669)**
MC7495	Lansdale	ML7495	
	Rochester	7495	
MC7495A	**Lansdale**	**ML7495A**	**(3669)**
MC7496	**Lansdale**	**ML7496**	**(3669)**
	Rochester	7496	
MC7497	**Lansdale**	**ML7497**	**(3669)**
MC75H05	Rochester	74H05	
MC75S110	National	μA55110	
		μA75110	
		μA9614	
		DS55110	
		DS75110	
		DS75110A	
		DS9614	
		LM55109	
		LM55110	
		LM75110	
	Raytheon	RC75109	
		RC75110	
	TI	SN55110	
		SN75110	
MC75107	National	DS55107	
		DS75107	
		DS75207	
		LM75107	
		LM75207	
	Raytheon	RC75107	
	TI	SN75107	
		SN75207	
MC75108	National	μA9615	
		DS75108	
		DS75208	
		DS9615	
MC75108	National		(Cont'd)
		LM75108	
		LM75208	
	NEC	μPD75108	
		μPD75208	
	Raytheon	RC75108	
	TI	SN75108	
		SN75208	
MC75125	TI	SN75122	
		SN75125	
MC75127	TI	SN75127	
MC75128	National	DS75128	
	TI	SN75128	
MC75129	National	DS75129	
	TI	SN75129	
MC75172	TI	SN75172	
MC75174	TI	SN75174	
MC7520	Unitrode	PIC7520	
MC7523	Unitrode	PIC7523	
MC7525	Unitrode	PIC7524	
MC7529	Unitrode	PIC7529	
MC75325	National	DS75325	
MC7535	Unitrode	PIC7535	
MC75491	National	DS75491	
MC75492	National	DS75492	
MC78L05	Ideal Semi	ISI778L05	
	National	μA78L05	
		LM204	
		LM240	
		LM340	
		LM78L05	
	Panasonic	AN78L05	
		MC78L05	
	TI	μA78L05	
		LM340	
	Toshiba	TA78L005	
MC78L08	Ideal Semi	ISI778L08	
	National	μA78L08	
		LM208	
		LM240	
		LM340	
		LM78L08	
	Panasonic	AN78L08	
	Samsung	MC78L08	
	SGS-Thomson		
		LM208	
	TI	μA78L08	
		LM340	
	Toshiba	TA78L008	
MC78L09	National	μA78L08	
	TI	μA78L08	
MC78L12	Ideal Semi	ISI778L12	
	National	μA78L12	
		LM240	
		LM340	
		LM78L12	
	Panasonic	AN78L12	
	Samsung	MC78L12	
	TI	μA78L12	
		LM340	
	Toshiba	TA78L012	
MC78L15	Ideal Semi	ISI778L15	
	National	μA78L15	
		LM240	
		LM340	
		LM78L15	
		LM79L15	
	Panasonic	AN78L15	
	Samsung	MC78L15	
	TI	μA78L15	
		LM340	
	Toshiba	TA78L015	
MC78L18	Ideal Semi	ISI778L18	
	National	μA78L18	
		LM240	
		LM340	
		LM78L18	
	Panasonic	AN78L18	
	TI	LM340	
	Toshiba	TA78L018	
MC78L24	Ideal Semi	ISI778L24	
	National	μA78L24	
		LM240	
		LM340	
		LM78L24	
	Panasonic	AN78L24	
	TI	LM340	
	Toshiba	TA78L24	
MC78M05	National	μA78M05	
		LM341	
		LM342	
		LM78M05	
MC78M05			(Cont'd)
	SGS-Thomson		
		L78M05	
	TI	μA78M05	
	Toshiba	TA78M05	
MC78M06	National	μA78M06	
		LM341	
		LM342	
	SGS-Thomson		
		L78M06	
	TI	μA78M06	
	Toshiba	TA78M06	
MC78M08	Linfinity		
	Micro	SG708	
	National	μA78M08	
		LM341	
		LM342	
		LM78M08	
	SGS-Thomson		
		L78M08	
	TI	μA78M08	
	Toshiba	TA78M08	
♦ MC78M08	Rochester	78M08	
MC78M12	Linfinity		
	Micro	SG7812	
	National	μA78M12	
		LM341	
		LM342	
		LM78M12	
	SGS-Thomson		
		L78M12	
	TI	μA78M12	
	Toshiba	TA78M12	
MC78M15	National	μA78M15	
		LM341	
		LM342	
		LM78M15	
	SGS-Thomson		
		L78M15	
	TI	μA78M15	
MC78M18	Linfinity		
	Micro	MC78M18	
		SG7818	
	National	μA78M18	
		LM341	
		LM342	
	SGS-Thomson		
		L78M18	
	Toshiba	TA78M18	
MC78M20	TI	μA78M20	
	Toshiba	TA78M20	
MC78M24	National	μA78M24	
		LM341	
		LM342	
		LM78M24	
	SGS-Thomson		
		L78M24	
	TI	μA78M24	
	Toshiba	TA78M24	
MC78S40	National	LM78S40	
MC78T05	LinearTech	LM323	
	SemTech	LAS1405	
MC78T05ACK	SemTech	LAS14A05	
		MC78T05ACK	
MC78T12	SemTech	LAS1412	
MC78T12ACK	SemTech	LAS14A12	
		MC78T12ACK	
MC78T15	SemTech	LAS1415	
MC78T15ACK	SemTech	LAS15A15	
		MC78T15ACK	
MC7805	Linfinity		
	Micro	SG7805	
	National	LM7805	
	Samsung	MC7805	
	SemTech	LAS1505	
	SGS-Thomson		
		L7805	
	TI	μA7805	
	Unitrode	UC7805	
♦ MC7805	Linfinity		
	Micro	SG7805	
	National	μA78H05	
		μA7805	
		LM7805	
♦ MC7805	SGS-Thomson		
		μA7805	
	TI	μA7805	
	Toshiba	TA78005	
MC7805ACK	SemTech	LAS15A05	
		MC7805ACK	
MC7805CK	SemTech	LAS1505	
		MC7805CK	
MC7806	Linfinity		
	Micro	SG7806	
	National	LM7806	
	SemTech	LAS1506	
	SGS-Thomson		
		L7806	
	TI	μA7806	
♦ MC7806	Linfinity		
	Micro	SG7806	
	National	μA7806	
		LM340	
		LM7806	
♦ MC7806	SGS-Thomson		
		μA7806	
	TI	μA7806	
		LM340	
♦ MC7806	Toshiba	TA78006	
MC7806CK	SemTech	LAS1506	
		MC7806CK	
MC7808	Linfinity		
	Micro	SG7808	
	Motorola	TA78008	
	National	μA7806	
		μA7808	
		LM340	
		LM7808	
	Samsung	MC7808	
	SemTech	LAS1508	
	SGS-Thomson		
		μA7806	
		L7808	
	TI	μA7806	
		μA7808	
		LM340	
MC7808CK	SemTech	LAS1508	
		MC7808CK	
MC7812	Linfinity		
	Micro	SG7812	
	National	μA7812	
		LM7812	
	Samsung	MC7812	
	SGS-Thomson		
		L7812	
	TI	μA7812	
	Toshiba	TA8012	
MC7812ACK	SemTech	LAS15A12	
		MC7812ACK	
MC7812CK	SemTech	LAS1512	
		MC7812CK	
MC7815	Linfinity		
	Micro	MC7815	
	National	LM7815	
	Samsung	MC7815	
	SGS-Thomson		
		L7815	
	TI	μA7815	
	Unitrode	UC7815	
♦ MC7815	Linfinity		
	Micro	SG7815	
	National	μA7815	
		LM7815	
♦ MC7815	TI	μA7815	
	Toshiba	TA78015	
MC7815ACK	SemTech	LAS15A15	
		MC7815ACK	
MC7815CK	SemTech	LAS1515	
		MC7815CK	
MC7818	Linfinity		
	Micro	SG7818	
	Motorola	L7818	
	National	μA7818	
		LM340	
		LM7818	
	TI	μA7818	
		LM340	
	Toshiba	TA8018	
MC7818CK	SemTech	LAS1518	
		MC7818CK	
MC7820	Linfinity		
	Micro	SG7820	
MC7824	Linfinity		
	Micro	SG7824	
	National	LM7824	
	Samsung	MC7824	
	SGS-Thomson		
		L7824	
	TI	μA7824	
♦ MC7824	Linfinity		
	Micro	SG7824	
	National	μA7824	
		LM340	
		LM7824	
♦ MC7824	TI	μA7824	
		LM340	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Motorola (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ MC7824	Toshiba	TA8024	
MC7824CK	SemTech	LAS1524	
		MC7824CK	
MC78705	LinearTech	LT323	
MC79L03	Ideal Semi	ISI779L03	
MC79L05	Ideal Semi	ISI779L05	
	National	µA79L05	
		LM320	
		LM79L05	
	Panasonic	AN79L05	
	Samsung	MC79L05	
	TI	MC79L05	
	Toshiba	TA79L005	
MC79L12	Ideal Semi	ISI779L12	
	National	µA79L12	
		LM320	
		LM79L12	
	Panasonic	AN79L12	
	TI	MC79L12	
	Toshiba	TA79L012	
MC79L15	Ideal Semi	ISI779L15	
	National	µA79L15	
		LM320	
		LM79L15	
	Panasonic	AN79L15	
	TI	MC79L15	
	Toshiba	TA79L015	
MC79L18	Ideal Semi	ISI779L18	
	Panasonic	AN79L18	
	Toshiba	TA79L018	
MC79L24	Ideal Semi	ISI779L24	
	Motorola	TA79L024	
	Panasonic	AN79L24	
MC79M05	National	µA79M05	
		LM79M05	
	TI	µA79M05	
MC79M08	National	µA79M08	
	TI	µA79M08	
MC79M12	National	µA79M12	
		LM79M12	
	TI	µA79M12	
MC79M15	National	LM79M15	
	TI	µA79M15	
MC7902	SemTech	LAS1802	
MC7905	Linfinity		
	Micro	SG7905	
	National	µA7905	
		LM120	
		LM220	
		LM330	
		LM345	
		LM7905	
	Samsung	MC7905	
	SGS-Thomson		
		µA7905	
		L7905	
	TI	µA7905	
	Toshiba	TA79005	
	Unitrode	UC7905	
MC7905.2CK	SemTech	MC7905.2CK	
MC7905ACK	SemTech	LAS18A05	
		MC790ACK	
MC7905CK	SemTech	LAS1805	
		MC7905CK	
MC7906	National	µA79M06	
		µA7906	
		LM320	
	TI	µA79M06	
		µA7906	
	Toshiba	TA79006	
♦ MC7906	Rochester	7906	
MC7906CK	SemTech	LAS1806	
		MC7906	
MC7908	Linfinity		
	Micro	SG7908	
	National	µA7908	
		LM320	
		LM7908	
	Samsung	MC7908	
	SGS-Thomson		
		L7908	
	TI	µA7908	
	Toshiba	TA79008	
MC7908CK	SemTech	LAS1808	
		MC7908	
MC7912	Linfinity		
	Micro	SG7912	
	National	µA7912	
		LM120	
		LM220	
MC7912	National		(Cont'd)
		LM320	
		LM7912	
	Samsung	MC7912	
	SGS-Thomson		
		µA7912	
		L7912	
	TI	µA7912	
	Toshiba	TA79012	
MC7912ACK	SemTech	LAS18A12	
		MC7912	
MC7912CK	SemTech	LAS1812	
MC7915	Linfinity		
	Micro	SG7915	
	National	µA7915	
		LM120	
		LM220	
		LM330	
		LM7915	
	Samsung	MC7915	
	SGS-Thomson		
		µA7915	
		L7915	
	TI	µA7915	
	Toshiba	TA79015	
	Unitrode	UC7915	
MC7915ACK	SemTech	LAS18A15	
		MC7915	
MC7915CK	SemTech	LAS1815	
MC7918	Linfinity		
	Micro	SG7918	
	National	µA79M18	
		µA7918	
		LM320	
	SGS-Thomson		
		L7918	
	TI	µA7918	
	Toshiba	TA79018	
MC7918CK	SemTech	LAS1818	
		MC7918	
MC7920	Linfinity		
	Micro	SG7920	
MC7924	National	µA79M24	
		LM320	
	SGS-Thomson		
		L7924	
	TI	µA79M24	
		µA7924	
	Toshiba	TA79024	
MC7924CK	SemTech	LAS1824	
		MC7924	
MC7952	SGS-Thomson		
		L7952	
MC8T13	National	DS75121	
♦ MC8T14	Lansdale	SL8T14	
♦ MC8T15	Lansdale	SL8T15	
♦ MC8T16	Lansdale	SL8T16	
MC8T23	National	DS75123	
MC8T24	National	DS75124	
MC8T26	Intel	D8216	
		M8216	
		8216	
	National	DP8216	
		DS8834	
		DS8835	
		INS8216	
	NEC	µPB8216	
	Philips	N8T26	
♦ MC8T26	Lansdale	SL8T26	
MC8T28	Intel	D8226	
		M8226	
		8226	
	National	DP8226	
		DS8T28	
		DS8833	
		DS8839	
		INS8226	
	NEC	µPB8226	
	Philips	N8T28	
♦ MC8T28	Lansdale	SL8T28	
MC8T95	Philips	N8T95	
♦ MC8T95	**Lansdale**	**ML8T95**	**(3670)**
MC8T96	Philips	N8T96	
♦ MC8T96	**Lansdale**	**ML8T96**	**(3670)**
		SL8T96	
MC8T97	Philips	N8T97	
♦ MC8T97	**Lansdale**	**ML8T97**	**(3670)**
MC8T98	Philips	N8T98	
♦ MC8T98	**Lansdale**	**ML8T98**	**(3670)**
♦ MC80	Lansdale	SL5480	
♦ MC800	Lansdale	ML800	
	Rochester	900	
♦ MC801	Lansdale	ML801	
	Rochester	901	
♦ MC802	Lansdale	ML802	
	Rochester	902	
♦ MC803	Lansdale	ML803	
	Rochester	903	
♦ MC804	Lansdale	ML804	
	Rochester	904	
♦ MC805	Lansdale	ML805	
	Rochester	905	
♦ MC806	Lansdale	ML806	
	Rochester	906	
♦ MC807	Lansdale	ML807	
	Rochester	907	
♦ MC808	Lansdale	ML808	
	Rochester	908	
♦ MC809	Lansdale	ML809	
	Rochester	909	
♦ MC810	Lansdale	ML810	
	Rochester	910	
♦ MC811	Lansdale	ML811	
	Rochester	911	
♦ MC812	Lansdale	ML812	
	Rochester	912	
♦ MC813	Lansdale	ML813	
	Rochester	913	
♦ MC814	Lansdale	ML814	
	Rochester	914	
♦ MC815	Lansdale	ML815	
	Rochester	915	
♦ MC816	Lansdale	ML816	
	Rochester	923	
♦ MC817	Lansdale	ML817	
♦ MC818	Lansdale	ML818	
♦ MC819	Lansdale	ML819	
♦ MC820	Lansdale	ML820	
♦ MC8200	Lansdale	ML8200	
		SL8200	
♦ MC8201	Lansdale	ML8201	
		SL8201	
♦ MC8202	Lansdale	ML8202	
		SL8202	
♦ MC8203	Lansdale	ML8203	
		SL8203	
♦ MC821	Lansdale	ML821	
	Rochester	921	
♦ MC822	Lansdale	ML822	
♦ MC8233	Lansdale	ML8233	
♦ MC8234	Lansdale	ML8234	
		SL8234	
♦ MC8235	Lansdale	ML8235	
		SL8235	
♦ MC824	Lansdale	ML824	
♦ MC8241	Lansdale	ML8241	
		SL8241	
♦ MC8242	Lansdale	ML8242	
♦ MC825	Lansdale	ML825	
♦ MC8250	Lansdale	ML8250	
		SL8250	
♦ MC8251	Lansdale	ML8251	
		SL8251	
♦ MC826	Lansdale	ML826	
♦ MC8260	Lansdale	ML8260	
		SL8260	
♦ MC8261	Lansdale	ML8261	
		SL8261	
♦ MC8266	Lansdale	ML8266	
		SL8266	
♦ MC8267	Lansdale	ML8267	
		SL8267	
♦ MC827	Lansdale	ML827	
	Rochester	927	
♦ MC8270	Lansdale	ML8270	
		SL8270	
♦ MC8271	Lansdale	ML8271	
		SL8271	
♦ MC828	Lansdale	ML828	
♦ MC8280	Lansdale	ML8280	
		SL8280	
♦ MC8281	Lansdale	ML8281	
		SL8281	
♦ MC8284	Lansdale	ML8284	
		SL8284	
♦ MC8285	Lansdale	ML8285	
		SL8285	
♦ MC8288	Lansdale	ML8288	
		SL8288	
♦ MC829	Lansdale	ML829	
♦ MC8290	Lansdale	ML8290	
		SL8290	
♦ MC8291	Lansdale	ML8291	
		SL8291	
♦ MC830	Lansdale	ML830	
	Rochester	930	
♦ MC8300	Lansdale	ML8300	
♦ MC8301	Lansdale	ML8301	
♦ MC8304	Lansdale	ML8304	
	Rochester	9304	
♦ MC8306	Lansdale	ML8306	
♦ MC8307	Lansdale	ML8307	
	Rochester	9307	
♦ MC8308	Lansdale	ML8308	
♦ MC8309	Lansdale	ML8309	
♦ MC831	Lansdale	ML831	
♦ MC8310	Lansdale	ML8310	
	Rochester	9310	
♦ MC8311	Lansdale	ML8311	
♦ MC8312	Lansdale	ML8312	
♦ MC8314	Lansdale	ML8314	
♦ MC8316	Lansdale	ML8316	
♦ MC8317	Lansdale	ML8317	
♦ MC8318	Lansdale	ML8318	
	Rochester	9318	
♦ MC832	Lansdale	ML832	
	Rochester	932	
♦ MC8322	Lansdale	ML8322	
♦ MC8324	Lansdale	ML8324	
♦ MC8328	Lansdale	ML8328	
♦ MC833	Lansdale	ML833	
	Rochester	933	
♦ MC834	Lansdale	ML834	
♦ MC8341	Rochester	9341	
♦ MC8342	Rochester	9342	
♦ MC835	Lansdale	ML835	
♦ MC836	Lansdale	ML836	
	Rochester	936	
♦ MC837	Lansdale	ML837	
	Rochester	937	
♦ MC838	Lansdale	ML838	
♦ MC839	Lansdale	ML839	
♦ MC840	Lansdale	ML840	
	Rochester	935	
♦ MC841	Lansdale	ML841	
♦ MC843	Lansdale	ML843	
♦ MC844	Rochester	944	
♦ MC845	Lansdale	ML845	
	Rochester	945	
♦ MC846	Lansdale	ML846	
	Rochester	946	
♦ MC847	Lansdale	ML847	
♦ MC848	Lansdale	ML848	
	Rochester	948	
♦ MC849	Lansdale	ML849	
	Rochester	949	
♦ MC850	Lansdale	ML850	
	Rochester	950	
♦ MC851	Lansdale	ML851	
	Rochester	951	
♦ MC852	Lansdale	ML852	
	Rochester	9099	
♦ MC853	Lansdale	ML853	
	Rochester	9093	
		9135	
♦ MC855	Lansdale	ML855	
	Rochester	9097	
♦ MC856	Lansdale	ML856	
	Rochester	9094	
♦ MC857	Lansdale	ML857	
	Rochester	9157	
♦ MC858	Lansdale	ML858	
	Rochester	9158	
♦ MC8601	Lansdale	ML8601	
♦ MC8602	Lansdale	ML8602	
♦ MC861	Lansdale	ML861	
	Rochester	961	
♦ MC862	Lansdale	ML862	
	Rochester	962	
♦ MC863	Lansdale	ML863	
	Rochester	963	
♦ MC864	Lansdale	ML864	
♦ MC867	Lansdale	ML867	
♦ MC870	Lansdale	ML870	
♦ MC871	Lansdale	ML871	
♦ MC874	Lansdale	ML874	
♦ MC875	Lansdale	ML875	
♦ MC876	Lansdale	ML876	
♦ MC877	Lansdale	ML877	
♦ MC878	Lansdale	ML878	
♦ MC879	Lansdale	ML879	
♦ MC880	Lansdale	ML880	
♦ MC881	Lansdale	ML881	
♦ MC882	Lansdale	ML882	
♦ MC883	Lansdale	ML883	
♦ MC884	Lansdale	ML884	
♦ MC885	Lansdale	ML885	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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nufacturer vice	Replacement Source	Device	IC Master Page
C886	Lansdale	ML886	
C887	Lansdale	ML887	
C888	Lansdale	ML888	
C889	Lansdale	ML889	
C890	Lansdale	ML890	
C891	Lansdale	ML891	
C892	Lansdale	ML892	
C893	Lansdale	ML893	
C894	Lansdale	ML894	
C896	Lansdale	ML896	
C897	Lansdale	ML897	
C898	Lansdale	ML898	
C899	Lansdale	ML899	
C900	Lansdale	ML900	
	Rochester	900	
C901	Lansdale	ML901	
	Rochester	901	
C902	Lansdale	ML902	
	Rochester	902	
C903	Lansdale	ML903	
	Rochester	903	
C904	Lansdale	ML904	
	Rochester	904	
C905	Lansdale	ML905	
	Rochester	905	
C906	Lansdale	ML906	
	Rochester	906	
C907	Lansdale	ML907	
	Rochester	907	
C908	Lansdale	ML908	
	Rochester	908	
C909	Lansdale	ML909	
	Rochester	909	
IC910	Lansdale	ML910	
	Rochester	910	
IC911	Lansdale	ML911	
	Rochester	911	
IC912	Lansdale	ML912	
	Rochester	912	
IC913	Lansdale	ML913	
	Rochester	913	
IC914	Lansdale	ML914	
	Rochester	914	
IC915	Lansdale	ML915	
	Rochester	915	
IC916	Lansdale	ML916	
	Rochester	923	
IC917	Lansdale	ML917	
IC918	Lansdale	ML918	
IC919	Lansdale	ML919	
IC920	Lansdale	ML920	
IC921	Lansdale	ML921	
	Rochester	921	
IC922	Lansdale	ML922	
IC924	Lansdale	ML924	
IC925	Lansdale	ML925	
IC926	Lansdale	ML926	
	Rochester	926	
IC927	Lansdale	ML927	
	Rochester	927	
IC928	Lansdale	ML928	
IC929	Lansdale	ML929	
IC930	Lansdale	ML930	
	Rochester	930	
IC9300	Lansdale	ML9300	
IC9301	Lansdale	ML9301	
IC9304	Lansdale	ML9304	
	Rochester	9304	
IC9306	Lansdale	ML9306	
IC9307	Lansdale	ML9307	
	Rochester	9307	
IC9308	Lansdale	ML9308	
IC9309	Lansdale	ML9309	
IC931	Lansdale	ML931	
IC9310	Lansdale	ML9310	
	Rochester	9310	
IC9311	Lansdale	ML9311	
IC9312	Lansdale	ML9312	
		SL8230	
IC9314	Lansdale	ML9314	
IC9316	Lansdale	ML9316	
IC9317	Lansdale	ML9317	
IC9318	Lansdale	ML9318	
	Rochester	9318	
IC932	Lansdale	ML932	
	Rochester	932	
IC9322	Lansdale	ML9322	
IC9324	Lansdale	ML9324	
IC9328	Lansdale	ML9328	
		SL8277	
◆ MC933	Lansdale	ML933	
	Rochester	933	
◆ MC934	Lansdale	ML934	
◆ MC9341	Rochester	9341	
◆ MC9342	Rochester	9342	
◆ MC935	Lansdale	ML935	
	Rochester	9135	
◆ MC936	Lansdale	ML936	
	Rochester	936	
◆ MC937	Lansdale	ML937	
	Rochester	937	
◆ MC938	Lansdale	ML938	
	Rochester	938	
◆ MC939	Lansdale	ML939	
◆ MC940	Lansdale	ML940	
	Rochester	935	
◆ MC941	Lansdale	ML941	
	Rochester	941	
◆ MC944	Lansdale	ML944	
	Rochester	944	
◆ MC945	Lansdale	ML945	
	Rochester	945	
◆ MC946	Lansdale	ML946	
	Rochester	946	
◆ MC947	Lansdale	ML947	
◆ MC948	Lansdale	ML948	
	Rochester	948	
◆ MC949	Lansdale	ML949	
	Rochester	949	
◆ MC950	Lansdale	ML950	
	Rochester	950	
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MC952	Rochester	952	
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	Rochester	9099	
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	Rochester	9093	
◆ MC955	Lansdale	ML955	
	Rochester	9097	
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	Rochester	9094	
◆ MC957	Lansdale	ML957	
	Rochester	9157	
MC958	Lansdale	ML958	
◆ MC958	Rochester	9158	
◆ MC9601	Lansdale	ML9601	
◆ MC9602	Lansdale	ML9602	
	Rochester	9602	
◆ MC961	Lansdale	ML961	
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◆ MC962	Lansdale	ML962	
	Rochester	962	
◆ MC963	Lansdale	ML963	
	Rochester	963	
◆ MC971	Lansdale	ML971	
	Rochester	971	
◆ MC974	Lansdale	ML974	
	Rochester	974	
◆ MC975	Lansdale	ML975	
◆ MC976	Lansdale	ML976	
◆ MC978	Lansdale	ML978	
◆ MC9801	Lansdale	ML9801	
◆ MC9802	Lansdale	ML9802	
◆ MC9804	Lansdale	ML9804	
◆ MC9807	Lansdale	ML9807	
◆ MC9809	Lansdale	ML9809	
◆ MC981	Lansdale	ML981	
	Rochester	MC981	
◆ MC9813	Lansdale	ML9813	
◆ MC9814	Lansdale	ML9814	
◆ MC9815	Lansdale	ML9815	
◆ MC9818	Lansdale	ML9818	
◆ MC9819	Lansdale	ML9819	
◆ MC982	Lansdale	ML982	
	Rochester	MC982	
◆ MC9820	Lansdale	ML9820	
◆ MC9821	Lansdale	ML9821	
◆ MC9822	Lansdale	ML9822	
◆ MC9823	Lansdale	ML9823	
◆ MC9824	Lansdale	ML9824	
◆ MC9825	Lansdale	ML9825	
◆ MC983	Lansdale	ML983	
◆ MC984	Lansdale	ML984	
◆ MC985	Lansdale	ML985	
◆ MC986	Lansdale	ML986	
◆ MC988	Lansdale	ML988	
◆ MC989	Lansdale	ML989	
	Rochester	989	
◆ MC990	Lansdale	ML990	
◆ MC991	Lansdale	ML991	
◆ MC992	Lansdale	ML992	
◆ MC993	Lansdale	ML993	
			(Continued)
◆ MC996	Lansdale	ML996	
◆ MC997	Lansdale	ML997	
◆ MC998	Lansdale	ML998	
◆ MC999	Lansdale	ML999	
MD5000	Lin Int Sys	LS351	
MD7000	Lin Int Sys	LS311	
MD7001	Lin Int Sys	LS351	
MD7002	Lin Int Sys	LS311	
MD7003	Lin Int Sys	LS351	
MD7004	Lin Int Sys	LS311	
MD7007	Lin Int Sys	LS311	
MD708	Lin Int Sys	LS311	
MD8001	Lin Int Sys	LS312	
MD8002	Lin Int Sys	LS312	
MD8003	Lin Int Sys	LS311	
MD918	Lin Int Sys	LS311	
MD982	Lin Int Sys	LS351	
MD984	Lin Int Sys	LS351	
MH0026	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
MK41H80	SGS-Thomson	MK41H80	
ML14002B	Lansdale	ML14002B	
ML14508B	Lansdale	ML14508B	
◆ ML1563	Lansdale	ML1563	
◆ ML1569	Lansdale	ML1569	
◆ ML4004	**Lansdale**	**ML4004**	**(3667)**
◆ ML4007	**Lansdale**	**ML4007**	**(3667)**
◆ ML4027	Lansdale	ML4027	
◆ ML4031	Lansdale	ML4031	
◆ ML4068	Lansdale	ML4068	
◆ ML4317	Lansdale	ML4317	
◆ ML477	Lansdale	ML477	
◆ ML559	Lansdale	ML559	
◆ ML561	Lansdale	ML561	
ML682	Lansdale	ML682	
ML684	Lansdale	ML684	
MMH0026	**Harris**	**ICL7667**	**(3638)**
	Lansdale	ML0026	
MOC1005	Toshiba	TLP631	
MOC1006	Toshiba	TLP631	
MOC119	Toshiba	TLP570	
MOC3002	Toshiba	TLP541G	
MOC3003	Toshiba	TLP541G	
MOC3007	Toshiba	TLP541G	
MOC3009	Toshiba	TLP3021	
MOC3010	Toshiba	TLP3021	
MOC3011	Toshiba	TLP3022	
MOC3012	Toshiba	TLP3023	
MOC3020	Toshiba	TLP3021	
MOC3021	Toshiba	TLP3021	
MOC3022	Toshiba	TLP3022	
MOC3023	Toshiba	TLP3023	
MOC3030	Toshiba	TLP3041	
MOC3031	Toshiba	TLP3041	
MOC3032	Toshiba	TLP3042	
MOC3040	Toshiba	TLP3041	
MOC3060	Toshiba	TLP3061	
MOC3061	Toshiba	TLP3061	
MOC3062	Toshiba	TLP3062	
MOC3063	Toshiba	TLP3063	
MOC601A	Toshiba	TLP731	
MOC601B	Toshiba	TLP731	
MOC602A	Toshiba	TLP731	
MOC602B	Toshiba	TLP731	
MOC603A	Toshiba	TLP731	
MOC603B	Toshiba	TLP731	
MOC633A	Toshiba	TLP3022	
MOC633B	Toshiba	TLP3022	
MOC634A	Toshiba	TLP3022	
MOC634B	Toshiba	TLP3022	
MOC635A	Toshiba	TLP3022	
MOC635B	Toshiba	TLP3022	
MOC640A	Toshiba	TLP3042	
MOC640B	Toshiba	TLP3042	
MOC641A	Toshiba	TLP3042	
MOC641B	Toshiba	TLP3042	
MOC8020	Toshiba	TLP372	
MOC8021	Toshiba	TLP372	
MOC8030	Toshiba	TLP372	
MOC8050	Toshiba	TLP372	
MOC8111	Toshiba	TLP632	
MOC8112	Toshiba	TLP632	
MPC601FA50-1	IBM	PPC601FA50-1	
MPC601FA66-1	IBM	PPC601FA66-1	
MPQ2907A	Allegro Micro	TPQ2907A	
MPQ3904	Allegro Micro	TPQ3904	
MPQ3906	Allegro Micro	TPQ3906	
			(Continued)
MPQ6002	Allegro Micro	TPQ6002	
MPQ6502	Allegro Micro	TPQ6502	
MPQ6700	Allegro Micro	TPQ6700	
MV74F21	Motorola	MC74F21	
	TI	SN74F21	
M0C3041	Toshiba	TLP3041	
M5M41000	Toshiba	TC511000	
NE555	Philips	NE555	
	TI	NE555	
NE556	Philips	NE556	
	Samsung	NE556	
	TI	NE556	
NE592	AMD	AM592	
	Philips	NE592	
	TI	NE592	
OP11	Harris	HA5134	
OP215	AD	OP215	
OP27	AD	OP27	
	AnalogSys	MA332	
		MA362	
	Harris	HA5127	
	LinearTech	LT1007	
		OP27	
	Maxim	OP27	
	Raytheon	OP27	
	TI	OP27	
OP37	AnalogSys	MA362	
	Harris	HA5137	
	LinearTech	LT1037	
		OP37	
◆ RC1450	Rochester	RC1450	
SAA1042	Allegro Micro	UCN5804	
SE592	AMD	AM592	
	Philips	SE592	
SG1524	LinearTech	LT1524	
		SG1524	
SG1525	LinearTech	LT1525	
		SG1525	
	Linfinity Micro	SG1525	
	Unitrode	UC1525	
SG1526	Allegro Micro	ULS8126	
	Linfinity Micro	SG1526	
	Unitrode	UC1526	
SG1527	LinearTech	LT1527	
		SG1527	
	Linfinity Micro	SG1527	
	Unitrode	UC1527	
SG2525	Linfinity Micro	SG2525	
	Unitrode	UC2525	
SG2526	Allegro Micro	ULQ8126	
	Linfinity Micro	SG2526	
	Unitrode	UC2526	
SG2527	Linfinity Micro	SG2527	
	Unitrode	UC2527	
SG3524	LinearTech	LT3524	
		SG3524	
SG3525	LinearTech	LT3525	
		SG3525	
	Linfinity Micro	SG3525	
	Samsung	KA3525	
	SGS-Thomson	SG3525	
	TI	SG3525	
	Unitrode	UC3525	
SG3526	Linfinity Micro	SG3526	
	Unitrode	UC1526	
		UC3526	
SG3527	LinearTech	SG3527	
	Linfinity Micro	SG3527	
	SGS-Thomson	SG3527	
	TI	SG3527	
	Unitrode	UC3527	
SG3626	Linfinity Micro	SG3526	
◆ SN54ALS539	TI	SN54ALS541	
◆ SN54ALS561	TI	SN54ALS561	
SN54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
			(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54LS00			(Cont'd)
	National	DM54LS00	
		54LS00	
	SGS-Thomson		
		T54LS00	
		54LS00	
	TI	SN54LS00	
SN54LS01	Lansdale	SL54LS01	
	TI	SN54LS01	
SN54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	National	DM54LS02	
		54LS02	
	SGS-Thomson		
		T54LS02	
		54LS02	
	TI	SN54LS02	
SN54LS03	National	DM54LS03	
		54LS03	
	SGS-Thomson		
		54LS03	
	TI	SN54LS03	
SN54LS04	GoldStar	GD54LS04	
		54LS04	
	Lansdale	SL54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson		
		T54LS04	
		54LS04	
	TI	SN54LS04	
SN54LS05	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	National	DM54LS05	
		54LS05	
	SGS-Thomson		
		T54LS05A	
		54LS05	
	TI	SN54LS05	
SN54LS08	GoldStar	GD54LS08	
	Lansdale	SL54LS08	
	National	DM54LS08	
		54LS08	
	TI	SN54LS08	
SN54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	National	DM54LS09	
		54LS09	
	SGS-Thomson		
		T54LS09	
		54LS09	
	TI	SN54LS09	
SN54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	National	DM54LS10	
		54LS10	
	SGS-Thomson		
		T54LS10	
		54LS10	
	TI	SN54LS10	
SN54LS107A	GoldStar	GD54LS107A	
	Lansdale	SL54LS107	
	National	DM54LS107A	
	TI	SN54LS107A	
SN54LS109A	GoldStar	GD54LS109A	
	Lansdale	SL54LS109	
	National	DM54LS109	
		54LS109	
	TI	SN54LS109A	
SN54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	National	DM54LS11	
		54LS11	
	SGS-Thomson		
		T54LS11	
		54LS11	
	TI	SN54LS11	
SN54LS112A	GoldStar	GD54LS112	
	Lansdale	SL54LS112	
	National	54LS112	
	TI	SN54LS112A	
SN54LS113A	Lansdale	SL54LS113	
	National	54LS113	
SN54LS114A	National	54LS114	
	SGS-Thomson		
		T54LS114	
	TI	SN54LS114A	
SN54LS12	National	DM54LS12	
	TI	SN54LS12	
SN54LS122	TI	SN54LS122	
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SN54LS123	GoldStar	GD54LS123	
	TI	SN54LS123	
SN54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125	
		SL54LS125A	
	National	DM54LS125A	
		54LS125A	
	SGS-Thomson		
		54LS125A	
	TI	SN54LS125A	
SN54LS126A	Lansdale	SL54LS126A	
	National	54LS126	
	SGS-Thomson		
		54LS126	
	TI	SN54LS126A	
SN54LS13	Lansdale	SL54LS13	
	National	54LS13	
	SGS-Thomson		
		T54LS13	
	TI	SN54LS13	
SN54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	National	DM54LS132	
	SGS-Thomson		
		T54LS132	
		54LS132	
	TI	SN54LS132	
SN54LS133	National	54LS133	
SN54LS136	Lansdale	SL54LS136	
	National	DM54LS136	
		54LS136	
	SGS-Thomson		
		T54LS136	
		54LS136	
	TI	SN54LS136	
SN54LS137	TI	SN54LS137	
SN54LS138	GoldStar	GD54LS138	
	National	DM54LS138	
		54LS138	
	SGS-Thomson		
		T54LS138	
		54LS138	
	TI	SN54LS138	
SN54LS139	GoldStar	GD54LS139	
	Lansdale	54LS139	
	National	DM54LS139	
		54LS139	
	SGS-Thomson		
		T54LS139	
		54LS139	
	TI	SN54LS139A	
SN54LS14	GoldStar	GD54LS14	
	Lansdale	SL54LS14	
	National	54LS14	
	SGS-Thomson		
		T54LS14	
		54LS14	
	TI	SN54LS14	
SN54LS145	GoldStar	GD54LS145	
	TI	SN54LS145	
SN54LS147	TI	SN54LS147	
SN54LS148	GoldStar	GD54LS148	
	TI	SN54LS148	
SN54LS15	GoldStar	GD54LS15	
	National	54LS15	
	SGS-Thomson		
		T54LS15	
		54LS15	
	TI	SN54LS15	
SN54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	National	DM54LS151	
		54LS151	
	SGS-Thomson		
		T54LS151	
		54LS151	
	TI	SN54LS151	
SN54LS153	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	National	DM54LS153	
		54LS152	
		54LS153	
	TI	SN54LS153	
SN54LS155	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	National	DM54LS155	
		54LS155	
	SGS-Thomson		
		T54LS155	
		54LS155	
	TI	SN54LS155A	
SN54LS156	Lansdale	SL54LS156	
	National	DM54LS156	
		54LS156	
	SGS-Thomson		
		T54LS156	
		54LS156	
	TI	SN54LS156	
SN54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	National	DM54LS157	
		54LS157	
	SGS-Thomson		
		T54LS157	
		54LS157	
	TI	SN54LS157	
SN54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	National	DM54LS158	
		54LS158	
	SGS-Thomson		
		T54LS158	
		54LS158	
	TI	SN54LS158	
SN54LS160A	Lansdale	SL54LS160A	
	National	54LS160A	
	TI	SN54LS160A	
SN54LS161A	GoldStar	GD54LS161A	
	National	DM54LS161A	
		54LS161	
	TI	SN54LS161A	
SN54LS162A	Lansdale	SL54LS162A	
	National	54LS162A	
	TI	SN54LS162A	
SN54LS163A	GoldStar	GD54LS163A	
	Lansdale	SL54LS163A	
	National	DM54LS163A	
		54LS163A	
	TI	SN54LS163A	
SN54LS164	GoldStar	GD54LS164	
	Lansdale	SL54LS164	
	National	DM54LS164	
		54LS164	
	TI	SN54LS164	
SN54LS165	GoldStar	GD54LS165	
	National	54LS165	
	Rochester	54LS165	
	TI	SN54LS165A	
SN54LS166	GoldStar	GD54LS166	
	TI	SN54LS166A	
SN54LS168	National	DM54LS168A	
		54LS168	
	SGS-Thomson		
		T54LS168	
SN54LS169	Lansdale	SL54LS169A	
	National	DM54LS169A	
		54LS169	
	SGS-Thomson		
		T54LS169	
	TI	SN54LS169B	
SN54LS170	Lansdale	SL54LS170	
	National	54LS170	
	SGS-Thomson		
		T54LS170	
		54LS170	
	TI	SN54LS170	
SN54LS173A	Lansdale	SL54LS173	
	National	54LS173A	
	TI	SN54LS173A	
SN54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	National	DM54LS174	
		54LS174	
	SGS-Thomson		
		T54LS174	
		54LS174	
	TI	SN54LS174	
SN54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	National	DM54LS175	
		54LS175	
	SGS-Thomson		
		T54LS175	
		54LS175	
	TI	SN54LS175	
SN54LS181	Lansdale	SL54LS181	
	National	54LS181	
	TI	SN54LS181	
♦ SN54LS183	TI	SN54LS183	
SN54LS190	National	DM54LS190	
	TI	SN54LS190	
SN54LS191	GoldStar	GD54LS191	
	Lansdale	SL54LS191	
			(Continued)
SN54LS191			(Con
	National	DM54LS191	
	TI	SN54LS191	
SN54LS192	Lansdale	SL54LS192	
	National	54LS192	
	SGS-Thomson		
		T54LS192	
		54LS192	
	TI	SN54LS192	
SN54LS193	GoldStar	GD54LS193	
	National	DM54LS193	
		54LS193	
	SGS-Thomson		
		T54LS193	
		54LS193	
	TI	SN54LS193	
SN54LS194A	GoldStar	GD54LS194A	
	Lansdale	SL54LS194A	
	National	54LS194A	
	SGS-Thomson		
		T54LS194A	
	TI	SN54LS194A	
SN54LS195A	GoldStar	GD54LS195A	
	National	54LS195	
	SGS-Thomson		
		T54LS195A	
		54LS195A	
	TI	SN54LS195A	
SN54LS196	TI	SN54LS196	
SN54LS197	Lansdale	SL54LS197	
	TI	SN54LS197	
SN54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	National	DM54LS20	
		54LS20	
	SGS-Thomson		
		T54LS20	
		54LS20	
	TI	SN54LS20	
SN54LS21	GoldStar	GD54LS21	
	Lansdale	SL54LS21	
	National	DM54LS21	
		54LS21	
	TI	SN54LS21	
SN54LS22	National	54LS22	
	SGS-Thomson		
		T54LS22	
		54LS22	
	TI	SN54LS22	
SN54LS221	GoldStar	GD54LS221	
	National	DM54LS221	
	TI	SN54LS221	
SN54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	National	DM54LS240	
		54LS240	
	SGS-Thomson		
		T54LS240	
		54LS240	
	TI	SN54LS240	
SN54LS241	GoldStar	GD54LS241	
	Lansdale	SL54LS241	
	National	DM54LS241	
		54LS241	
	TI	SN54LS241	
SN54LS242	GoldStar	GD54LS242	
	Lansdale	SL54LS242	
	National	DM54LS242	
	TI	SN54LS242	
SN54LS243	GoldStar	GD54LS243	
	Lansdale	SL54LS243	
	National	DM54LS243	
	TI	SN54LS243	
SN54LS244	GoldStar	GD54LS244	
	Lansdale	SL54LS244	
	National	54LS244	
	TI	SN54LS244	
SN54LS245	GoldStar	GD54LS245	
	Lansdale	SL54LS245	
	National	DM54LS245	
		54LS245	
	TI	SN54LS245	
SN54LS247	National	54LS247	
	TI	SN54LS247	
SN54LS248	National	54LS248	
	TI	SN54LS248	
SN54LS249	National	54LS249	
	TI	SN54LS249	
SN54LS251	GoldStar	GD54LS251	
	Lansdale	SL54LS251	
	National	DM54LS251	
	TI	SN54LS251	
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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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N54LS253	Lansdale	SL54LS253	
	National	DM54LS253	
		54LS253	
	TI	SN54LS253	
N54LS256	Lansdale	SL54LS256	
	National	54LS256	
	SGS-Thomson		
		T54LS256	
N54LS257A	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257B	
	National	DM54LS257B	
		54LS257A	
	TI	SN54LS257B	
N54LS257B	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
	National	DM54LS257B	
		54LS257A	
	TI	SN54LS257B	
N54LS258A	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258B	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson		
		T54LS258A	
		54LS258	
	TI	SN54LS258B	
N54LS258B	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson		
		T54LS258A	
		54LS258	
	TI	SN54LS258B	
N54LS259	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	National	DM54LS259	
		54LS259	
	SGS-Thomson		
		T54LS259	
		54LS259	
	TI	SN54LS259B	
SN54LS26	GoldStar	GD54LS26	
	Lansdale	SL54LS26	
	National	DM54LS26	
		54LS26	
	TI	SN54LS26	
SN54LS260	Lansdale	SL54LS260	
	National	54LS260	
	SGS-Thomson		
		T54LS260	
SN54LS266	Lansdale	SL54LS266	
	National	54LS266	
	SGS-Thomson		
		T54LS266	
		54LS266	
	TI	SN54LS266	
SN54LS27	GoldStar	GD54LS27	
	National	DM54LS27	
		54LS27	
	SGS-Thomson		
		T54LS27	
		54LS27	
	TI	SN54LS27	
SN54LS273	GoldStar	GD54LS273	
	Lansdale	SL54LS273	
	National	54LS273	
	Philips	54LS273	
	SGS-Thomson		
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	TI	SN54LS273	
SN54LS279	National	DM54LS279	
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	SGS-Thomson		
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	TI	SN54LS279A	
SN54LS28	National	54LS28	
	SGS-Thomson		
		T54LS28	
	TI	SN54LS28	
SN54LS280	GoldStar	GD54LS280	
	SGS-Thomson		
		T54LS280	
		54LS280	
	TI	SN54LS280	
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	Lansdale	SL54LS283	
	National	DM54LS283	
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	SGS-Thomson		
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	TI	SN54LS283	
SN54LS290	SGS-Thomson		
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	TI	SN54LS290	
SN54LS293	SGS-Thomson		
		T54LS293	
		54LS293	
	TI	SN54LS293	
SN54LS298	GoldStar	GD54LS298	
	Lansdale	SL54LS298	
	National	54LS298	
	SGS-Thomson		
		54LS298	
	TI	SN54LS298	
SN54LS299	GoldStar	GD54LS299	
	National	54LS299	
	TI	SN54LS299	
SN54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
	National	DM54LS30	
		54LS30	
	SGS-Thomson		
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	TI	SN54LS30	
SN54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	National	DM54LS32	
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	SGS-Thomson		
		T54LS32	
		54LS32	
	TI	SN54LS32	
SN54LS322A	GoldStar	GD54LS322	
	National	54LS322	
	TI	SN54LS322A	
SN54LS323	National	54LS323	
	TI	SN54LS323	
SN54LS33	Lansdale	SL54LS33	
	National	54LS33	
	SGS-Thomson		
		T54LS33	
	TI	SN54LS33	
SN54LS348	TI	SN54LS348	
SN54LS352	Lansdale	SL54LS352	
	National	DM54LS352	
		54LS352	
	SGS-Thomson		
		T54LS352	
	TI	SN54LS352	
SN54LS353	Lansdale	SL54LS353	
	National	54LS353	
	SGS-Thomson		
		T54LS353	
	TI	SN54LS353	
SN54LS365A	Lansdale	SL54LS365A	
	National	DM54LS365A	
		54LS365	
	SGS-Thomson		
		T54LS365A	
		54LS365	
	TI	SN54LS365A	
SN54LS366A	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	National	DM54LS366A	
		54LS366	
	SGS-Thomson		
		T54LS366A	
		54LS366	
	TI	SN54LS366A	
SN54LS367A	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	National	DM54LS367A	
		54LS367	
	SGS-Thomson		
		T54LS367A	
		54LS367	
	TI	SN54LS367A	
SN54LS368A	GoldStar	GD54LS368A	
	National	DM54LS368A	
		54LS368	
	SGS-Thomson		
		T54LS368A	
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	TI	SN54LS368A	
SN54LS37	Lansdale	SL54LS37	
	National	DM54LS37	
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SN54LS37			(Cont'd)
	SGS-Thomson		
		T54LS37	
		54LS37	
	TI	SN54LS37	
SN54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
	National	DM54LS373	
	SGS-Thomson		
		T54LS373	
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	TI	SN54LS373	
SN54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	National	DM54LS374	
		54LS374	
	SGS-Thomson		
		T54LS374	
		54LS374	
	TI	SN54LS374	
SN54LS375	Lansdale	SL54LS375	
	National	54LS375	
	TI	SN54LS375	
SN54LS377	GoldStar	GD54LS377	
	Lansdale	SL54LS377	
	National	54LS377	
	SGS-Thomson		
		T54LS377	
		54LS377	
	TI	SN54LS377	
SN54LS378	Lansdale	SL54LS378	
	National	54LS378	
	SGS-Thomson		
		T54LS378	
	TI	SN54LS378	
SN54LS379	National	54LS379	
	SGS-Thomson		
		T54LS379	
	TI	SN54LS379	
SN54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	National	DM54LS38	
		54LS38	
	SGS-Thomson		
		T54LS38	
		54LS38	
	TI	SN54LS38	
SN54LS386	TI	SN54LS385	
		SN54LS386A	
SN54LS390	GoldStar	GD54LS390	
	Lansdale	SL54LS390	
	SGS-Thomson		
		T54LS390	
		54LS390	
	TI	SN54LS390	
SN54LS393	GoldStar	GD54LS393	
	Lansdale	SL54LS393	
	SGS-Thomson		
		T54LS393	
	TI	SN54LS393	
SN54LS398	TI	SN54LS396	
SN54LS399	TI	SN54LS399	
SN54LS40	Lansdale	SL54LS40	
	National	54LS40	
	SGS-Thomson		
		T54LS40	
		54LS40	
	TI	SN54LS40	
SN54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42A	
	National	DM54LS42	
		54LS42	
	SGS-Thomson		
		T54LS42	
		54LS42	
	TI	SN54LS42	
SN54LS42A	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
	National	DM54LS42	
		54LS42	
	SGS-Thomson		
		T54LS42	
		54LS42	
	TI	SN54LS42	
SN54LS47	National	54LS47	
	TI	SN54LS47	
SN54LS48	National	DM54LS471	
		54LS48	
	TI	SN54LS48	
SN54LS490	**Lansdale**	**SL54LS490**	**(3674)**
	National	54LS490	
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SN54LS490			(Cont'd)
	SGS-Thomson		
		T54LS490	
	TI	SN54LS490	
SN54LS51	GoldStar	GD54LS51	
	Lansdale	SL54LS51	
	National	54LS503	
		54LS51	
	TI	SN54LS51	
SN54LS54	Lansdale	SL54LS54	
	National	54LS54	
	SGS-Thomson		
		T54LS54	
		54LS54	
	TI	SN54LS54	
SN54LS540	**Lansdale**	**SL54LS540**	**(3674)**
	TI	SN54LS540	
SN54LS541	**Lansdale**	**SL54LS541**	**(3674)**
	TI	SN54LS541	
SN54LS55	GoldStar	GD54LS55	
	National	54LS55	
	SGS-Thomson		
		T54LS55	
		54LS55	
SN54LS569A	GoldStar	GD54LS590	
	TI	SN54LS590	
♦ SN54LS604	TI	SN54LS598	
♦ SN54LS607	Rochester	54LS607	
♦ SN54LS621	**Lansdale**	**SL54LS621**	**(3674)**
♦ SN54LS622	**Lansdale**	**SL54LS622**	**(3674)**
SN54LS623	**Lansdale**	**SL54LS623**	**(3674)**
SN54LS640	GoldStar	GD54LS640	
		GD54LS640-1	
	Lansdale	**SL54LS640**	**(3674)**
	TI	SN54LS640	
SN54LS641	**Lansdale**	**SL54LS641-1**	**(3674)**
	TI	SN54LS641	
SN54LS642	**Lansdale**	**SL54LS642**	**(3674)**
	TI	SN54LS642	
SN54LS645	**Lansdale**	**SL54LS645**	**(3674)**
		SL54LS645-1	**(3674)**
	TI	SN54LS645	
SN54LS669	TI	SN54LS669	
SN54LS670	GoldStar	GD54LS670	
	Lansdale	**SL54LS670**	**(3674)**
	National	DM54LS670	
		54LS670	
	SGS-Thomson		
		54LS670	
	TI	SN54LS670	
SN54LS682	TI	SN54LS681	
		SN54LS682	
SN54LS684	TI	SN54LS684	
SN54LS688	GoldStar	GD54LS688	
	TI	SN54LS688	
SN54LS73A	GoldStar	GD54LS73A	
	Lansdale	SL54LS73	
	National	DM54LS73A	
	TI	SN54LS73A	
SN54LS74A	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	National	DM54LS74	
		54LS74	
	SGS-Thomson		
		T54LS74A	
		54LS74	
	TI	SN54LS74A	
SN54LS748	Lansdale	SL54LS75	
	Motorola	SN54LS75	
	National	DM54LS75	
	TI	SN54LS75	
SN54LS75	Lansdale	SL54LS75	
	Motorola	SN54LS748	
	National	DM54LS75	
	TI	SN54LS75	
SN54LS76A	Lansdale	SL54LS76	
	TI	SN54LS76A	
SN54LS77	TI	SN54LS78A	
SN54LS795	Motorola	SN54LS796	
SN54LS796	Motorola	SN54LS795	
SN54LS797	Motorola	SN54LS798	
SN54LS798	Motorola	SN54LS797	
SN54LS83A	Lansdale	SL54LS83A	
	National	DM54LS83A	
		54LS83A	
	SGS-Thomson		
		54LS83A	
	TI	SN54LS83A	
SN54LS848	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS85	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54LS848			(Cont'd)
	National	DM54LS85	
		54LS85	
	TI	SN54LS85	
SN54LS85	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS848	
	National	DM54LS85	
		54LS85	
	TI	SN54LS85	
SN54LS86	GoldStar	GD54LS86	
	Lansdale	SL54LS86	
	National	DM54LS86	
	TI	SN54LS86A	
SN54LS90	GoldStar	GD54LS90	
	Lansdale	SL54LS90	
	TI	SN54LS90	
◆ SN54LS91	TI	SN54LS91	
SN54LS92	GoldStar	GD54LS92	
	Lansdale	SL54LS92	
	TI	SN54LS92	
SN54LS93	GoldStar	GD54LS93	
	Lansdale	SL54LS93	
	SGS-Thomson	T54LS93	
		54LS93	
	TI	SN54LS93	
SN54LS95B	GoldStar	GD54LS95B	
	Lansdale	SL54LS95B	
	National	54LS95B	
	TI	SN54LS95B	
◆ SN54S148	Rochester	54S15	
	TI	SN54S15	
◆ SN54S348	Philips	54S350	
◆ SN74ALS153	Mitsubishi	M74ALS153	
	National	DM74ALS153	
	Philips	74ALS153	
	TI	SN74ALS153	
SN74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	**(3674)**
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
	TI	SN74LS00	
SN74LS01	**Lansdale**	**SL74LS01**	**(3674)**
	SGS-Thomson	T74LS01	
		74LS01	
	TI	SN74LS01	
SN74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	**(3674)**
	National	DM74LS02	
		74LS02	
	SGS-Thomson	T74LS02	
		74LS02	
	TI	SN74LS02	
SN74LS03	National	DM74LS03	
		74LS03	
	Rochester	74LS03	
	SGS-Thomson	T74LS03A	
		74LS03	
	TI	SN74LS03	
SN74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	**(3674)**
	National	DM74LS04	
		74LS04	
	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
	TI	SN74LS04	
SN74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	**(3674)**
	National	DM74LS05	
		74LS05	
	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
	TI	SN74LS05	
SN74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	**(3674)**
	National	DM74LS08	
		74LS08	
			(Continued)
SN74LS08			(Cont'd)
	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
	TI	SN74LS08	
SN74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	**(3674)**
	National	DM74LS09	
		74LS09	
	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
	TI	SN74LS09	
SN74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	**(3674)**
	National	DM74LS10	
		74LS10	
	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
	TI	SN74LS10	
SN74LS107A	GoldStar	GD74LS107A	
	Lansdale	**SL74LS107**	**(3674)**
	National	DM74LS107A	
	TI	SN74LS107A	
SN74LS109A	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	**(3674)**
	National	DM74LS109	
		74LS109	
	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
SN74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	**(3674)**
	National	DM74LS11	
		74LS11	
	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
	TI	SN74LS11	
SN74LS112A	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	**(3674)**
	National	DM74LS112	
		74LS112	
	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
SN74LS113A	**Lansdale**	**SL74LS113**	**(3674)**
	Rochester	74LS113	
	SGS-Thomson	T74LS113A	
	TI	SN74LS113A	
SN74LS114A	Rochester	74LS114	
	SGS-Thomson	T74LS114A	
	TI	SN74LS114A	
SN74LS12	National	DM74LS12	
		74LS12	
	Rochester	74LS12	
	SGS-Thomson	T74LS12	
		74LS12	
	TI	SN74LS12	
SN74LS122	National	DM74LS122	
	TI	SN74LS122	
SN74LS123	GoldStar	GD74LS123	
	National	DM74LS123	
	TI	SN74LS123	
SN74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
	National	DM74LS125A	
		74LS125	
	SGS-Thomson	T74LS125A	
		74LS125A	
	TI	SN74LS125A	
SN74LS126A	**Lansdale**	**SL74LS126A**	**(3674)**
	National	DM74LS126	
		74LS126	
	SGS-Thomson	T74LS126A	
		74LS126	
	TI	SN74LS126A	
SN74LS13	**Lansdale**	**SL74LS13**	**(3674)**
	National	74LS13	
			(Continued)
SN74LS13			(Cont'd)
	SGS-Thomson	T74LS13	
		74LS13	
	TI	SN74LS13	
SN74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	**(3674)**
	National	DM74LS132	
		74LS132	
	SGS-Thomson	T74LS132	
		74LS132	
	TI	SN74LS132	
SN74LS133	National	74LS133	
	SGS-Thomson	T74LS133	
		74LS133	
SN74LS136	**Lansdale**	**SL74LS136**	**(3674)**
	National	74LS136	
	SGS-Thomson	T74LS136	
		74LS136	
	TI	SN74LS136	
SN74LS137	TI	SN74LS137	
SN74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	**(3674)**
	National	DM74LS138	
		74LS138	
	SGS-Thomson	T74LS138	
		74LS138	
	TI	SN74LS138	
SN74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	**(3674)**
	National	DM74LS139	
		74LS139	
	SGS-Thomson	T74LS139	
		74LS139	
	TI	SN74LS139A	
SN74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	**(3674)**
	National	DM74LS14	
		74LS14	
	SGS-Thomson	T74LS14	
		74LS14	
	TI	SN74LS14	
SN74LS145	GoldStar	GD74LS145	
	TI	SN74LS145	
SN74LS147	TI	SN74LS147	
SN74LS148	GoldStar	GD74LS148	
	SGS-Thomson	T74LS148	
	TI	SN74LS148	
SN74LS15	GoldStar	GD74LS15	
	National	74LS15	
	SGS-Thomson	T74LS15	
		74LS15	
	TI	SN74LS15	
SN74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	**(3674)**
	National	DM74LS151	
		74LS151	
	SGS-Thomson	T74LS151	
		74LS151	
	TI	SN74LS151	
SN74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	**(3674)**
	National	DM74LS153	
		74LS153	
	SGS-Thomson	T74LS153	
		74LS153	
	TI	SN74LS153	
SN74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	**(3674)**
	National	DM74LS155	
		74LS155	
	SGS-Thomson	T74LS155	
		74LS155	
	TI	SN74LS155A	
SN74LS156	**Lansdale**	**SL74LS156**	**(3674)**
	National	DM74LS156	
		74LS156	
	SGS-Thomson	T74LS156	
		74LS156	
	TI	SN74LS156	
SN74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	**(3674)**
			(Continued)
SN74LS157			(Cont'
	National	DM74LS157	
		74LS157	
	SGS-Thomson	T74LS157	
		74LS157	
	TI	SN74LS157	
SN74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(367**
	National	DM74LS158	
		74LS158	
	Rochester	74LS158	
	SGS-Thomson	T74LS158	
		74LS158	
	TI	SN74LS158	
SN74LS160A	**Lansdale**	**SL74LS160A**	**(367**
	National	74LS160	
	SGS-Thomson	T74LS160A	
	TI	SN74LS160A	
SN74LS161A	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	**(367**
	National	DM74LS161A	
		74LS161	
	SGS-Thomson	T74LS161A	
	TI	SN74LS161A	
SN74LS162A	**Lansdale**	**SL74LS162A**	**(367**
	National	74LS162	
	SGS-Thomson	T74LS162A	
	TI	SN74LS162A	
SN74LS163A	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	**(367**
	National	DM74LS163A	
		74LS163	
	SGS-Thomson	T74LS163A	
	TI	SN74LS163A	
SN74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	**(367**
	National	DM74LS164	
		74LS164	
	SGS-Thomson	T74LS164	
		74LS164	
	TI	SN74LS164	
SN74LS165	GoldStar	GD74LS165	
	National	74LS165	
	TI	SN74LS165A	
SN74LS166	GoldStar	GD74LS166	
	National	DM74LS166	
	SGS-Thomson	T74LS166	
		74LS166	
	TI	SN74LS166A	
SN74LS168	SGS-Thomson	T74LS168	
		74LS168	
SN74LS169	**Lansdale**	**SL74LS169A**	**(367**
	National	DM74LS169A	
		74LS169	
	Rochester	74LS169	
	SGS-Thomson	T74LS169	
		74LS169	
	TI	SN74LS169B	
SN74LS170	National	74LS170	
	SGS-Thomson	T74LS170	
		74LS170	
	TI	SN74LS170	
SN74LS173A	**Lansdale**	**SL74LS173**	**(367**
	National	74LS173A	
	TI	SN74LS173A	
SN74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	**(367**
	National	DM74LS174	
		74LS174	
	SGS-Thomson	T74LS174	
		74LS174	
	TI	SN74LS174	
SN74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	**(367**
	National	DM74LS175	
		74LS175	
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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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SN74LS175			(Cont'd)
	SGS-Thomson	T74LS175	
		74LS175	
	TI	SN74LS175	
SN74LS181	National	74LS181	
	SGS-Thomson	T74LS181	
		74LS181	
	TI	SN74LS181	
SN74LS190	National	DM74LS190	
		74LS190	
	SGS-Thomson	T74LS190	
		74LS190	
	TI	SN74LS190	
SN74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	**(3674)**
	National	DM74LS191	
		74LS191	
	SGS-Thomson	T74LS191	
		74LS191	
	TI	SN74LS191	
SN74LS192	**Lansdale**	**SL74LS192**	**(3674)**
	National	74LS192	
	SGS-Thomson	T74LS192	
		74LS192	
	TI	SN74LS192	
SN74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	**(3674)**
	National	DM74LS193	
		74LS193	
	SGS-Thomson	T74LS193	
		74LS193	
	TI	SN74LS193	
SN74LS194A	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	**(3674)**
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson	T74LS194A	
		74LS194	
	TI	SN74LS194A	
SN74LS195A	GoldStar	GD74LS195A	
	National	DM74LS195A	
	SGS-Thomson	T74LS195A	
		74LS195	
	TI	SN74LS195A	
SN74LS196	National	74LS196	
	SGS-Thomson	T74LS196	
		74LS196	
	TI	SN74LS196	
SN74LS197	**Lansdale**	**SL74LS197**	**(3674)**
	National	74LS197	
	SGS-Thomson	T74LS197	
		74LS197	
	TI	SN74LS197	
SN74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
	National	DM74LS20	
		74LS20	
	Rochester	74LS20	
	SGS-Thomson	T74LS20	
		74LS20	
	TI	SN74LS20	
SN74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	National	DM74LS21	
		74LS21	
	Rochester	74LS21	
	SGS-Thomson	T74LS21	
		74LS21	
	TI	SN74LS21	
SN74LS22	Rochester	74LS22	
	SGS-Thomson	T74LS22	
		74LS22	
	TI	SN74LS219A	
SN74LS221	GoldStar	GD74LS221	
	National	DM74LS221	
	TI	SN74LS221	
SN74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	**(3674)**
			(Continued)
SN74LS240			(Cont'd)
	National	DM74LS240	
		74LS240	
	SGS-Thomson	T74LS240	
		74LS240	
	TI	SN74LS240	
SN74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	**(3674)**
	National	DM74LS241	
		74LS241	
	SGS-Thomson	T74LS241	
		74LS241	
	TI	SN74LS241	
SN74LS242	GoldStar	GD74LS242	
	Lansdale	**SL74LS242**	**(3674)**
	TI	SN74LS242	
SN74LS243	GoldStar	GD74LS243	
	Lansdale	**SL74LS243**	**(3674)**
	National	DM74LS243	
	TI	SN74LS243	
SN74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	**(3674)**
	National	DM74LS244	
		74LS244	
	SGS-Thomson	T74LS244	
		74LS244	
	TI	SN74LS244	
SN74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	National	DM74LS245	
		74LS245	
	Rochester	74LS245	
	SGS-Thomson	T74LS245	
		74LS245	
	TI	SN74LS245	
SN74LS247	National	74LS247	
	TI	SN74LS247	
SN74LS248	National	74LS248	
	SGS-Thomson	T74LS248	
SN74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	**(3674)**
	National	DM74LS251	
		74LS251	
	Rochester	74LS251	
	SGS-Thomson	T74LS251	
		74LS251	
	TI	SN74LS251	
SN74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	National	DM74LS253	
		74LS253	
	Rochester	74LS253	
	SGS-Thomson	T74LS253	
		74LS253	
	TI	SN74LS253	
SN74LS256	**Lansdale**	**SL74LS256**	**(3674)**
	National	74LS256	
	SGS-Thomson	T74LS256	
		74LS256	
SN74LS257A	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257B	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson	T74LS257A	
		74LS257	
	TI	SN74LS257B	
SN74LS257B	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257A	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson	T74LS257A	
		74LS257	
	TI	SN74LS257B	
SN74LS258A	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258B	
	National	DM74LS258B	
		74LS258	
			(Continued)
SN74LS258A			(Cont'd)
	Rochester	74LS258	
	SGS-Thomson	T74LS258A	
		74LS258	
	TI	SN74LS258B	
SN74LS258B	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258A	
	National	DM74LS258B	
		74LS258	
	Rochester	74LS258	
	SGS-Thomson	T74LS258A	
		74LS258	
	TI	SN74LS258B	
SN74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	National	DM74LS259	
		74LS259	
	Rochester	74LS259	
	SGS-Thomson	T74LS259	
		74LS259	
	TI	SN74LS259B	
SN74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson	T74LS26	
		T74LS26A	
		74LS26	
	TI	SN74LS26	
SN74LS260	National	74LS260	
	SGS-Thomson	T74LS260	
		74LS260	
SN74LS266	**Lansdale**	**SL74LS266**	**(3674)**
	National	74LS266	
	SGS-Thomson	T74LS266	
		74LS266	
	TI	SN74LS266	
SN74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	National	DM74LS27	
		74LS27	
	Rochester	74LS27	
	SGS-Thomson	T74LS27	
		74LS27	
	TI	SN74LS27	
SN74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	**(3674)**
	National	74LS273	
	SGS-Thomson	T74LS273	
		74LS273	
	TI	SN74LS273	
SN74LS279	National	DM74LS279	
		74LS279	
	Rochester	74LS279	
	SGS-Thomson	T74LS279	
		74LS279	
	TI	SN74LS279A	
SN74LS28	National	74LS28	
	SGS-Thomson	T74LS28	
		74LS28	
	TI	SN74LS28	
SN74LS280	GoldStar	GD74LS280	
	SGS-Thomson	T74LS280	
		74LS280	
	TI	SN74LS280	
SN74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	**(3674)**
	National	DM74LS283	
		74LS283	
	SGS-Thomson	T74LS283	
		74LS283	
	TI	SN74LS283	
SN74LS290	National	DM74LS290	
		74LS290	
	SGS-Thomson	T74LS290	
	TI	SN74LS290	
SN74LS293	National	DM74LS293	
		74LS293	
			(Continued)
SN74LS293			(Cont'd)
	SGS-Thomson	T74LS293	
		74LS293	
	TI	SN74LS292	
		SN74LS293	
SN74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	**(3674)**
	National	74LS298	
	SGS-Thomson	T74LS298	
		74LS298	
	TI	SN74LS297	
		SN74LS298	
SN74LS299	National	74LS299	
	TI	SN74LS299	
SN74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	National	DM74LS30	
		74LS30	
	Rochester	74LS30	
	SGS-Thomson	T74LS30	
		74LS30	
	TI	SN74LS30	
SN74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson	T74LS32	
		74LS32	
	TI	SN74LS31	
		SN74LS32	
SN74LS322A	GoldStar	GD74LS322	
	National	74LS322	
	TI	SN74LS322A	
SN74LS323	National	74LS323	
	TI	SN74LS323	
SN74LS33	**Lansdale**	**SL74LS33**	**(3674)**
	National	74LS33	
	SGS-Thomson	T74LS33	
		74LS33	
	TI	SN74LS33	
SN74LS348	National	74LS347	
	TI	SN74LS348	
SN74LS352	**Lansdale**	**SL74LS352**	**(3674)**
	National	DM74LS352	
		74LS352	
	SGS-Thomson	T74LS352	
		74LS352	
	TI	SN74LS352	
SN74LS353	**Lansdale**	**SL74LS353**	**(3674)**
	National	74LS353	
	SGS-Thomson	T74LS353	
		74LS353	
	TI	SN74LS353	
SN74LS365A	**Lansdale**	**SL74LS365A**	**(3674)**
	National	DM74LS365A	
		74LS365	
	Rochester	74LS365	
	SGS-Thomson	T74LS365A	
		74LS365A	
	TI	SN74LS365A	
SN74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	**(3674)**
	National	DM74LS366A	
		74LS366	
	SGS-Thomson	T74LS366A	
		74LS366A	
	TI	SN74LS366A	
SN74LS367A	GoldStar	GD74LS367A	
	National	DM74LS367A	
		74LS367	
	Rochester	74LS367	
	SGS-Thomson	T74LS367A	
		74LS367A	
	TI	SN74LS367A	
SN74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	National	DM74LS368A	
		74LS368	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74LS368A			(Cont'd)
	Rochester	74LS368	
	SGS-Thomson	T74LS368A	
		74LS368A	
	TI	SN74LS368A	
SN74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	National	DM74LS37	
		74LS37	
	Rochester	74LS37	
	SGS-Thomson	T74LS37	
		74LS37	
	TI	SN74LS37	
SN74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	National	DM74LS373	
		74LS373	
	SGS-Thomson	T74LS373	
		74LS373	
	TI	SN74LS373	
SN74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	National	DM74LS374	
		74LS374	
	SGS-Thomson	T74LS374	
		74LS374	
	TI	SN74LS374	
SN74LS375	**Lansdale**	**SL74LS375**	**(3674)**
	National	74LS375	
	TI	SN74LS375	
SN74LS377	GoldStar	GD74LS377	
	Lansdale	**SL74LS377**	**(3674)**
	National	74LS377	
	SGS-Thomson	T74LS377	
		74LS377	
	TI	SN74LS377	
SN74LS378	**Lansdale**	**SL74LS378**	**(3674)**
	National	74LS378	
	SGS-Thomson	T74LS378	
		74LS378	
	TI	SN74LS378	
SN74LS379	National	74LS379	
	SGS-Thomson	T74LS379	
		74LS379	
	TI	SN74LS379	
SN74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	National	DM74LS38	
		74LS38	
	Rochester	74LS38	
	SGS-Thomson	T74LS38	
		74LS38	
	TI	SN74LS38	
SN74LS386	National	74LS386	
	Rochester	74LS386	
	TI	SN74LS382A	
SN74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	National	DM74LS390	
	SGS-Thomson	T74LS390	
		74LS390	
	TI	SN74LS390	
SN74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	National	DM74LS393	
		74LS393	
	SGS-Thomson	T74LS393	
		74LS393	
	TI	SN74LS393	
SN74LS395	GoldStar	GD74LS395	
	Lansdale	**SL74LS395A**	**(3674)**
	National	74LS395	
	SGS-Thomson	T74LS395A	
		74LS395	
	TI	SN74LS395A	
SN74LS399	SGS-Thomson	T74LS399	
		74LS399	
	TI	SN74LS399	
SN74LS40	National	74LS40	
	SGS-Thomson	T74LS40	
		74LS40	
	TI	SN74LS40	
SN74LS42	GoldStar	GD74LS42	
	National	DM74LS42	
		74LS42	
	Rochester	74LS42	
	SGS-Thomson	T74LS42	
		74LS42	
	TI	SN74LS42	
SN74LS47	National	74LS47	
	TI	SN74LS47	
SN74LS48	National	DM74LS472A-45	
		74LS48	
SN74LS490	**Lansdale**	**SL74LS490**	**(3674)**
	National	74LS490	
	SGS-Thomson	T74LS490	
		74LS490	
SN74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	National	DM74LS51	
		74LS503	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
		74LS51	
	TI	SN74LS51	
SN74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	National	74LS54	
	SGS-Thomson	T74LS54	
		74LS54	
	TI	SN74LS54	
SN74LS540	**Lansdale**	**SL74LS540**	**(3674)**
	National	74LS540	
	SGS-Thomson	T74LS540	
	TI	SN74LS540	
SN74LS541	**Lansdale**	**SL74LS541**	**(3674)**
	SGS-Thomson	T74LS541	
	TI	SN74LS541	
SN74LS55	GoldStar	GD74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS541B1	
		T74LS55	
		74LS55	
	TI	SN74LS55	
SN74LS569A	**Lansdale**	**SL74LS569A**	**(3674)**
SN74LS623	**Lansdale**	**SL74LS623**	**(3674)**
	Rochester	74LS623	
	TI	SN74LS623	
SN74LS640	GoldStar	GD74LS640	
		GD74LS640-1	
	Lansdale	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
	TI	SN74LS640	
		SN74LS640-1	
SN74LS641	**Lansdale**	**SL74LS641**	**(3674)**
		SL74LS641-1	**(3674)**
	TI	SN74LS641	
		SN74LS641-1	
SN74LS642	**Lansdale**	**SL74LS642**	**(3674)**
		SL74LS642-1	**(3674)**
	TI	SN74LS642	
		SN74LS642-1	
SN74LS645	**Lansdale**	**SL74LS645**	**(3674)**
		SL74LS645-1	**(3674)**
	SGS-Thomson	T74LS645	
	TI	SN74LS645	
		SN74LS645-1	
SN74LS669	TI	SN74LS652	
		SN74LS669	
SN74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	National	DM74LS670	
		74LS670	
	Rochester	74LS670	
	SGS-Thomson	T74LS670	
		74LS670	
			(Continued)
SN74LS670			(Cont'd)
	TI	SN74LS670	
SN74LS682	TI	SN74LS682	
SN74LS684	TI	SN74LS684	
SN74LS688	GoldStar	GD74LS688	
	TI	SN74LS688	
SN74LS73A	GoldStar	GD74LS73A	
	Lansdale	**SL74LS73**	**(3674)**
	National	DM74LS73A	
	TI	SN74LS73A	
SN74LS74A	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	National	DM74LS74	
		74LS74	
	Rochester	74LS74	
	SGS-Thomson	T74LS74A	
		74LS74	
	TI	SN74LS74A	
SN74LS748	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS75	
	National	DM74LS75	
	Rochester	74LS75	
	SGS-Thomson	T74LS75	
	TI	SN74LS75	
SN74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748	
	National	DM74LS75	
	Rochester	74LS75	
	SGS-Thomson	T74LS75	
	TI	SN74LS75	
SN74LS76A	**Lansdale**	**SL74LS76**	**(3674)**
	SGS-Thomson	T74LS75B1	
	TI	SN74LS76A	
SN74LS783	Motorola	SN74LS785	
SN74LS785	Motorola	SN74LS783	
SN74LS795	Motorola	SN74LS796	
SN74LS796	Motorola	SN74LS795	
SN74LS797	Motorola	SN74LS798	
SN74LS798	Motorola	SN74LS797	
SN74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	National	DM74LS83A	
		74LS83	
	Rochester	74LS83	
	SGS-Thomson	T74LS83A	
		74LS83A	
	TI	SN74LS83A	
SN74LS848	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS85	
	National	DM74LS85	
		74LS85	
	Rochester	74LS85	
	TI	SN74LS85	
SN74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
	National	DM74LS85	
		74LS85	
	Rochester	74LS85	
	TI	SN74LS85	
SN74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	National	DM74LS86	
		74LS86	
	Rochester	74LS86	
	SGS-Thomson	T74LS86	
		74LS86	
	TI	SN74LS86A	
SN74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson	T74LS90	
		74LS90	
	TI	SN74LS90	
SN74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	SGS-Thomson	T74LS92	
	TI	SN74LS92	
SN74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	T74LS93	
		74LS93	
			(Continued)
SN74LS93			(Cont'd)
	TI	SN74LS93	
SN74LS95B	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	National	74LS95B	
	SGS-Thomson	T74LS93B1	
		T74LS95B	
		74LS95B	
	TI	SN74LS95B	
SN75173	TI	SN75173	
SN75175	TI	SN75175	
SN75176	National	DS75176B	
TA78008	Motorola	MC7808	
TA79L024	Motorola	MC79L24	
TCA5600	SGS-Thomson	TCA5600	
TCF6000	SGS-Thomson	TCF6000	
TDA1085	GEC Plessey	TDA1085	
TDA1185	GEC Plessey	TDA1185	
TDA3190	SGS-Thomson	TDA3190	
TDA3301	Harris	CA3201	
		CA3217	
	SGS-Thomson	TDA3301	
TDA3303	SGS-Thomson	TDA3303	
TL071	**Burr-Brown**	**OPA604**	**(3458**
TL070	SGS-Thomson	TL072	
TL071	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	SGS-Thomson	TL071	
	TI	TL071	
TL071MJG	TI	TL071MJG	
TL072	AnalogSys	MA336	
		MA372	
	SGS-Thomson	TL072	
TL072MJG	TI	TL072MJG	
TL074	AnalogSys	MA374	
	SGS-Thomson	TL074	
	TI	TL074	
TL081	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Burr-Brown	**OPA604**	**(3458**
	Harris	CA081	
	SGS-Thomson	TL081	
	TI	TL081	
TL081MJG	TI	TL081MJG	
TL082	AnalogSys	MA336	
	Harris	CA082	
		CA084	
	SGS-Thomson	TL082	
TL082MJG	TI	TL082MJG	
TL084	AnalogSys	MA374	
	Exar	XR084	
	Harris	CA084	
	SGS-Thomson	TL084	
TL431	Astec Semi	TL431	
	ECI Semi	431	
	GEC Plessey	REF25	
		ZNREF025	
		ZN404	
	LinearTech	LT1431	
	National	µA431	
	Samsung	KA431	
	TI	TL431	
TL431A	Astec Semi	A431	
TL431MJG	TI	TL431MJG	
TL493	Linfinity Micro	UC493	
TL494	Fujitsu	MB3759	
	Linfinity Micro	SG1524	
		SG2503	
		SG3524	
	National	µA494	
	TI	TA76494	
		TL494	
	Unitrode	UC494	
TL494MJ	TI	TL494MJ	
TL495	TI	TL495	
			(Continued

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
TL594	Unitrode	UC494	
TL780	TI	TL780	
UC1842	Unitrode	UC1842	
UC1843	Unitrode	UC1843	
UC1844	Unitrode	UC1844	
UC1845	Unitrode	UC1845	
UC2842	Cherry Semi	CS2842	
	Philips	UC2842	
	SGS-Thomson	UC2842	
	Unitrode	UC2842	
UC2843	Cherry Semi	CS2843	
	Philips	UC2843	
	SGS-Thomson	UC2843	
	Unitrode	UC2843	
UC2843AN6	Cherry Semi	CS2843	
UC2844	Cherry Semi	CS2844	
	Philips	UC2844	
	SGS-Thomson	UC2844	
	Unitrode	UC2844	
UC2845	Cherry Semi	CS2845	
	Philips	UC2845	
	SGS-Thomson	UC2845	
	Unitrode	UC2845	
UC384	Astec Semi	UC384	
UC3842	Astec Semi	UC3842A	
	Cherry Semi	CS3842	
	Philips	UC3842	
	Samsung	KA3842	
	SGS-Thomson	UC3842	
	Unitrode	UC3842	
UC3842A	Astec Semi	UC3842A	
	Micrel	**MIC38C42**	**(3685)**
		MIC38HC42	
UC3842AN	Cherry Semi	CS3842	
	Philips	UC3842	
UC3843	Astec Semi	UC3843A	
	Cherry Semi	CS3843	
	Philips	UC3843	
	SGS-Thomson	UC3843	
	Unitrode	UC3843	
UC3843A	Astec Semi	UC3843A	
	Micrel	**MIC38C43**	**(3685)**
		MIC38HC43	
UC3843AN	Cherry Semi	CS3843	
UC3844	Astec Semi	UC3844A	
	Cherry Semi	CS3844	
	Micrel	**MIC38C44**	**(3685)**
		MIC38HC44	
	Philips	UC3844	
	SGS-Thomson	UC3844	
	Unitrode	UC3844	
UC3844A	Astec Semi	UC3844A	
UC3845	Astec Semi	UC3845A	
	Cherry Semi	CS3845	
	Micrel	**MIC38C45**	**(3685)**
		MIC38HC45	
	Philips	UC3845	
	SGS-Thomson	UC3845	
	Unitrode	UC3845	
UC3845A	Astec Semi	UC3845A	
UDN2580	Motorola	MC1417	
ULN2001	Allegro Micro	ULN2001	
ULN2003	Allegro Micro	ULN2003	
	Linfinity Micro	SG2003	
ULN2004	Allegro Micro	ULN2004	
	Linfinity Micro	SG2004	
ULN2064	Allegro Micro	ULN2064	
	Linfinity Micro	SG2064	
ULN2065	Allegro Micro	ULN2065	
	Linfinity Micro	SG2065	
ULN2066	Linfinity Micro	SG2066	
ULN2067	Linfinity Micro	SG2067	
ULN2068	Allegro Micro	ULN2068	
	Linfinity Micro	SG2068	
	SGS-Thomson	ULN2068	
	TI	ULN2068	
ULN2069	Allegro Micro	ULN2069	
	Linfinity Micro	SG2069	
ULN2074	Linfinity Micro	SG2074	
ULN2801	Allegro Micro	ULN2801	
	SGS-Thomson	ULN2801	
ULN2802	SGS-Thomson	ULN2802	
ULN2803	Allegro Micro	ULN2803	
	SGS-Thomson	ULN2803	
ULN2804	Allegro Micro	ULN2804	
	SGS-Thomson	ULN2804	
VN0610	TeledyneC	VN0610	
VN2222	TeledyneC	VN2222	
100422	Krueger	100422	
100474	Krueger	100474	
10415	Krueger	10415	
10422	Krueger	10422	
10474	Krueger	10474	
108/BGAJC	TI	LM108LB	
108/BPAJC	TI	LM108JGB	
108A/BGAJC	TI	LM108ALB	
108A/BJAJC	TI	LM108AJGB	
124/BCAJC	TI	LM124FKB	
		LM124JB	
139/BCAJC	TI	LM139JB	
139A/BCAJC	TI	LM139AJB	
146818	**Krueger**	**146818**	**(3663)**
1555/BGAJC	TI	SE555LB	
1555/BPAJC	TI	SE555JGB	
158/BPAJC	TI	LM158JGB	
2N2060	Lin Int Sys	LS312	
2N2060A	Lin Int Sys	LS311	
2N2060B	Lin Int Sys	LS311	
2N2223A	Lin Int Sys	LS311	
2N2333	Lin Int Sys	LS311	
2N2453	Lin Int Sys	LS311	
2N2453A	Lin Int Sys	LS311	
2N2480	Lin Int Sys	LS311	
2N2480A	Lin Int Sys	LS311	
2N2639	Lin Int Sys	LS312	
2N2640	Lin Int Sys	LS311	
2N2641	Lin Int Sys	LS311	
2N2642	Lin Int Sys	LS311	
2N2643	Lin Int Sys	LS311	
2N2644	Lin Int Sys	LS311	
2N2652	Lin Int Sys	LS312	
2N2652A	Lin Int Sys	LS312	
2N2721	Lin Int Sys	LS312	
2N2915A	Lin Int Sys	LS312	
2N2916A	Lin Int Sys	LS312	
2N2919A	Lin Int Sys	LS312	
2N3045	Lin Int Sys	LS311	
2N3046	Lin Int Sys	LS311	
2N3047	Lin Int Sys	LS311	
2N3048	Lin Int Sys	LS311	
2N3436	Lin Int Sys	LS842	
2N3437	Lin Int Sys	LS842	
2N3438	Lin Int Sys	LS842	
2N3458	Lin Int Sys	LS842	
2N3459	Lin Int Sys	LS842	
2N3460	Lin Int Sys	LS842	
2N3576	Rochester	2N3576	
2N3726	Lin Int Sys	LS351	
2N3727	Lin Int Sys	LS352	
2N3806	Lin Int Sys	LS352	
2N3807	Lin Int Sys	LS352	
2N3808	Lin Int Sys	LS352	
2N3809	Lin Int Sys	LS352	
2N3810	Lin Int Sys	LS352	
2N3810A	Lin Int Sys	LS352	
2N3811	Lin Int Sys	LS352	
2N3811A	Lin Int Sys	LS352	
2N3812	Lin Int Sys	LS351	
2N3813	Lin Int Sys	LS351	
2N3814	Lin Int Sys	LS351	
2N3815	Lin Int Sys	LS351	
2N3816	Lin Int Sys	LS352	
2N3816A	Lin Int Sys	LS352	
2N3817	Lin Int Sys	LS352	
2N3817A	Lin Int Sys	LS352	
2N4016	Lin Int Sys	LS312	
2N4937	Lin Int Sys	LS351	
2N4938	Lin Int Sys	LS351	
2N4940	Lin Int Sys	LS351	
2N4941	Lin Int Sys	LS351	
2N4942	Lin Int Sys	LS351	
2N5793	Lin Int Sys	LS311	
2N5794	Lin Int Sys	LS311	
2N5795	Lin Int Sys	LS351	
2N5796	Lin Int Sys	LS351	
2N7000	TeledyneC	2N7000	
2652	SMC	COM5025	
4N25	Toshiba	4N25	
4N25A	Toshiba	4N25A	
4N26	Toshiba	4N26	
4N27	Toshiba	4N27	
4N28	Toshiba	4N28	
4N29	Toshiba	4N29	
4N29A	Toshiba	4N29A	
4N30	Toshiba	4N30	
4N31	Toshiba	4N31	
4N32	Toshiba	4N32	
4N32A	Toshiba	4N32A	
4N33	Toshiba	4N33	
4N35	Toshiba	4N35	
4N36	Toshiba	4N36	
4N37	Toshiba	4N37	
4N38	Toshiba	4N38	
4N38A	Toshiba	4N38A	
431/BPAJC	TI	TL431MJGB	
54ALS00	Rochester	54ALS00	
	TI	SN54ALS00A	
54ALS04	TI	SN54ALS03B	
		SN54ALS04B	
54ALS08	TI	SN54ALS05A	
		SN54ALS08	
54ALS138	Rochester	54ALS138	
	TI	SN54ALS133	
		SN54ALS138	
54ALS161	TI	SN54ALS161B	
54ALS163	TI	SN54ALS163B	
54ALS32	Rochester	54ALS32	
	TI	SN54ALS32	
54ALS573	Rochester	54ALS573	
	TI	SN54ALS573B	
54ALS574	Rochester	54ALS574	
	TI	SN54ALS574A	
♦ 54H00	Rochester	RC3100	
♦ 54181	Rochester	7181	
♦ 74181	Rochester	8181	

MSI/Scorpion Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
AM1402	AMD	AM1402	
AM1403	AMD	AM1403	
AM1404	AMD	AM1404	
AM1702	AMD	AM1702	
AM2802	AMD	AM2802	
AM2803	AMD	AM2803	
AM2804	AMD	AM2804	
AM2812	AMD	AM2812	
AM2813	AMD	AM2813	
AM2833	AMD	AM2833	
AM2841	AMD	AM2841	
AM2847	AMD	AM2847	
AM2855	AMD	AM2855	
AM2856	AMD	AM2856	
AM2857	AMD	AM2857	
AM3341	AMD	AM3341	

National Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ dm54s257	Rochester	54S257	
μA080	Philips	DAC08	
μA0801	Philips	DAC08	
		MC1408	
μA0802	Motorola	MC1408	
		MC1508	
μA101	AD	OP77	
	LinearTech	LM101	
	Linfinity Micro	SG101	
	Motorola	LM101	
	National	LM101	
μA101A	Raytheon	LM101A	
μA105	National	LM105	
μA107	LinearTech	LM107	
	Motorola	MC1741	
μA108	LinearTech	LM108	
		LT1008	
	National	LM108	
μA108A	National	LM108A	
μA108AHMQB	TI	LM108ALB	
μA108HMQB	TI	LM108LB	
μA109	Linfinity Micro	SG109	
	Motorola	LM109	
μA110	National	LM110	
μA111	LinearTech	LM111	
		LT1011	
		LT111	
	Linfinity Micro	SG111	
	National	LM111	
μA117	LinearTech	LM117	
		LT117	
	Linfinity Micro	SG117	
	National	LM117	
	SGS-Thomson	LM117	
	Unitrode	UC117	
μA124	LinearTech	LT1014	
	Linfinity Micro	SG124	
	National	LM124	
	Philips	LM124	
	Raytheon	LM124	
	SGS-Thomson	LM124	
μA124DM	TI	LM124J	
μA124DMQB	TI	LM124JB	
μA124FMQB	TI	LM124WB	
μA124LMQB	TI	LM124FKB	
μA139	National	LM139	
	Raytheon	LM139	
	SGS-Thomson	LM139	
μA139DM	TI	LM139J	
μA139DMQB	TI	LM139JB	
μA139FMQB	TI	LM139WB	
μA139LMQB	TI	LM139FKB	
μA1391	Motorola	MC1391	
μA1458	AnalogSys	MA336	
		MA372	
	Motorola	MC1458	
		MC1558	
	National	LM1458	
	Panasonic	AN1458	
		AN6572	
	Philips	MC1458	
	Samsung	MC1458	
	SGS-Thomson	MC1458	
μA148	LinearTech	LT1014	
	Raytheon	LM148	
		RC4156	
		RC4157	
	SGS-Thomson	LM148	
μA148DM	TI	LM148J	
μA148DMQB	TI	LM148JB	
μA1488	SGS-Thomson	MC1488	
μA1489	Linfinity Micro	SG1468	
	National	DS1489	
	SGS-Thomson	MC1489	
μA1524	Linfinity Micro	SG1524	
	Unitrode	UC1524	
μA1558	LinearTech	LT1013	
	Motorola	MC1558	
	National	LM1558	
	SGS-Thomson	MC1558	
μA198	Philips	NE5537	
μA201	AD	OP77	
	Linfinity Micro	SG201	
	Motorola	LM201	
	National	LM201	
	SGS-Thomson	LM201	
μA207	AD	OP77	
	Motorola	MC1741	
μA208	AD	PM1008	
	National	LM208	
μA208A	National	LM208A	
μA209	Linfinity Micro	SG209	
	Motorola	LM209	
μA2111	National	LH2111	

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♦ Discontinued

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
μA224	AD	OP421	
	Linfinity Micro	SG224	
	National	LM224	
	SGS-Thomson	LM224	
μA2240	Exar	XR2240	
μA238	Linfinity Micro	SG238	
μA239	National	LM239	
	SGS-Thomson	LM239	
μA248	AD	PM248	
μA2524	Linfinity Micro	SG2524	
	Unitrode	UC2524	
μA26LS31	AMD	AM26LS31	
	National	DS26LS31	
μA26LS32	AMD	AM26LS32	
	National	DS26LS32	
μA2900	Raytheon	LM2900	
μA2901	National	LM2901	
	Philips	LM2901	
	SGS-Thomson	LM2901	
μA2902	AnalogSys	MA374	
	SGS-Thomson	LM2902	
μA30S54	National	TP3054	
μA30S57	National	TP3057	
μA30S64	National	TP3064	
μA30S67	National	TP3067	
μA301	AD	OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
	Linfinity Micro	SG301	
	Motorola	LM301	
	National	LM301	
		LM301A	
	SGS-Thomson	LM301	
μA3026	Motorola	CA3054	
μA3045	Motorola	MC3346	
μA3046	Motorola	MC3346	
μA305	Linfinity Micro	SG305	
	National	LM305	
μA305A	National	LM305A	
μA3052	National	TP3052	
μA3054	Motorola	CA3054	
μA3064	Motorola	MC13010	
μA307	AD	OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	LM307	
μA308	AD	PM1008	
	LinearTech	LM308	
		LT1008	
	National	LM308	
	SGS-Thomson	LM308	
μA3086	Linfinity Micro	SG3821	
	National	LM3086	
μA309	Linfinity Micro	SG309	
	Motorola	LM309	
	SemTech	LAS1505	
μA311	LinearTech	LM311	
		LT1011	
		LT311	
	Linfinity Micro	SG311	
	Motorola	LM311	
	National	LM311	
	Panasonic	AN1311	
	Philips	LM311	
	SGS-Thomson	LM311	
		LM331	
μA317	LinearTech	LM317	
		LT317	
	Linfinity Micro	SG317	
	Motorola	LM317	
	National	LM317	
	Samsung	LM317	
	Unitrode	UC317	
μA318	LinearTech	LM318	
		LT318	
μA324	AD	OP421	
	National	LM324	
	Panasonic	AN1324	
		AN6564	
	Philips	LM324	
	Raytheon	LM324	
	SGS-Thomson	LM324	
μA3301	Motorola	MC3301	
μA3302	Motorola	MC3302	
	National	LM3302	
	Philips	MC3302	
	SGS-Thomson	MC3302	
μA3303	AD	OP421	
	AnalogSys	MA374	
	Motorola	MC3303	
	SGS-Thomson	MC3303	
μA338	Linfinity Micro	SG338	
μA339	Philips	LM339	
	SGS-Thomson	LM339	
μA3401	Motorola	MC3401	
μA3403	AD	OP421	
	AnalogSys	MA374	
	Motorola	MC3403	
	Raytheon	RC3403A	
	SGS-Thomson	MC3403	
μA348	AD	OP11	
	AnalogSys	MA374	
	National	LM348	
	Raytheon	LM348	
		RC4157	
	SGS-Thomson	LM348	
μA3486	National	DS3486	
μA350	Linfinity Micro	SG350	
	National	LM350	
	Unitrode	UC350	
μA3503	SGS-Thomson	MC3503	
μA3524	Linfinity Micro	SG3524	
μA3900	Raytheon	LM3900	
μA398	Philips	SE5537	
μA4136	AD	OP09	
	Motorola	MC4741	
	Panasonic	AN6554	
	Raytheon	RC4136	
μA4136DM	TI	RM4136J	
μA4136DMQB	TI	RM4136JB	
μA431	GEC Plessey	REF25	
		ZNREF025	
	Motorola	TL431	
	Samsung	KA431	
μA4558	Panasonic	AN4558	
		AN6552	
	Raytheon	RC4558	
		RC4559	
	Samsung	MC4558	
μA494	Motorola	TL494	
	Unitrode	UC494	
μA5016	MicroLinear	ML501-6C	
μA5016R	MicroLinear	ML501R-6C	
μA5018	MicroLinear	ML501-8C	
μA5018R	MicroLinear	ML501R-8C	
μA5116	National	TP5116	
μA5156	National	TP5116	
μA55110	Motorola	MC75S110	
μA55450	Linfinity Micro	SG55450	
μA55452	Linfinity Micro	SG55452	
μA55462	Linfinity Micro	SG55462	
μA555	Motorola	MC1455	
	National	LM555	
	Philips	NE555	
	SGS-Thomson	NE555	
μA555HMQB	TI	SE555LB	
μA555RM	TI	SE555JG	
μA555RMQB	TI	SE555JGB	
μA556	Motorola	MC3456	
	National	LM556	
	Philips	NE556	
	SGS-Thomson	NE556	
μA5800	National	TP3204	
μA709	Motorola	MC1709	
	National	LM709	
μA710	National	LM710	
♦ μA710	Lansdale	ML1710	
μA711	National	LM711	
μA714	AD	OP77	
	LinearTech	LT1001	
		OP07	
	TI	OP07	
μA715	Motorola	MC1741	
μA723	Fujitsu	MB3752	
	Harris	CA0723	
	Motorola	MC1723	
	Philips	μA723	
	TI	μA723	
μA723DM	TI	UA723MJ	
μA723DMQB	TI	UA723MJB	
μA723LMQB	TI	UA723MFKB	
μA725	AD	OP06	
μA733	Philips	μA733	
μA733DM	TI	UA733MJ	
μA733DMQB	TI	UA733MJB	
μA733FMQB	TI	UA733MUB	
μA740	Motorola	LF355	
μA741	AD	OP02	
		OP07	
		OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	MC1741	
	Philips	μA741	
	SGS-Thomson	μA741	
	TI	μA741	
μA741DM	TI	UA741MJ	
μA741DMQB	TI	UA741MJB	
μA741HMQB	TI	UA741MLB	
μA741RM	TI	UA741MJG	
μA741RMQB	TI	UA741MJGB	
μA742	Motorola	CA3059	
μA747	AD	OP04	
	Motorola	MC1747	
	National	LM747	
	TI	μA747	
μA747DM	TI	UA747MJ	
μA747DMQB	TI	UA747MJB	
μA747FMQB	TI	UA747MWB	
μA748	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	MC1748	
	National	LM748	
	SGS-Thomson	μA748	
	TI	μA748	
μA75107	National	DS75107	
μA75108	National	DS75108	
μA75110	Motorola	MC75S110	
♦ μA75110	National	DS75110	
	TI	SN75110	
μA75150	National	DS75150	
μA75154	National	DS75154	
μA75450	Linfinity Micro	SG75450	
	National	DS75450	
μA75451	Linfinity Micro	SG75451	
μA75452	Linfinity Micro	SG75452	
μA75453	Linfinity Micro	SG75453	
μA75461	Linfinity Micro	SG75461	
μA75462	Linfinity Micro	SG75462	
μA75491	National	DS75451	
μA757	Motorola	MC1350	
μA760	National	LM760	
μA771	AnalogSys	MA332	
		MA333	
		MA362	
	National	LF351	
	SGS-Thomson	TL071	
	TI	TL071	
		TL081	
μA771BHMQB	TI	TL071MLB	
μA771BRM	TI	TL071MJG	
μA771BRMQB	TI	TL071MJGB	
μA772	AnalogSys	MA333	
		MA336	
		MA372	
	Motorola	MC1741	
	National	LF353	
	SGS-Thomson	TL072	
	TI	TL072	
		TL082	
μA772BHMQB	TI	TL072MLB	
μA772BRM	TI	TL072MJG	
μA772BRMQB	TI	TL072MJGB	
μA774	AnalogSys	MA374	
	National	LF347	
	SGS-Thomson	TL072	
		TL074	
	TI	TL074	
		TL084	
μA774BDMQB	TI	TL074MJB	
μA775	Motorola	LM339	
μA776	AD	OP22	
	Motorola	MC1776	
	SGS-Thomson	μA776	
μA78	Motorola	LM317	
μA78H05	LinearTech	LT1003	
	SemTech	LAS1905	
μA78H12	SemTech	LAS1912	
μA78L05	Motorola	MC78L05	
	National	LM78L05	
	Panasonic	AN78L05	
		MC78L05	
	TI	μA78L05	
μA78L06	Panasonic	AN78L06	
μA78L08	Motorola	MC78L08	
		MC78L09	
	Panasonic	AN78L08	
μA78L09	Panasonic	AN78L09	
	TI	μA78L09	
μA78L10	Panasonic	AN78L10	
μA78L12	Motorola	MC78L12	
	National	LM78L12	
	Panasonic	AN78L12	
	Samsung	MC78L12	
	TI	μA78L12	
μA78L15	Motorola	MC78L15	
	National	LM78L15	
	Panasonic	AN78L15	
	Samsung	MC78L15	
	TI	μA78L15	
μA78L18	Motorola	MC78L18	
	Panasonic	AN78L18	
μA78L24	Motorola	MC78L24	
	Panasonic	AN78L24	
μA78M05	Motorola	MC78M05	
	National	LM78M05	
	SGS-Thomson	L78M05	
	TI	μA78M05	
μA78M06	Motorola	MC78M06	
	SGS-Thomson	L78M06	
	TI	μA78M06	
μA78M08	Motorola	MC78M08	
	SGS-Thomson	L78M08	
	TI	μA78M08	
♦ μA78M08	Rochester	78M08	
μA78M12	Motorola	MC78M12	
	National	LM78M12	
	SGS-Thomson	L78M12	
	TI	μA78M12	
μA78M15	Motorola	MC78M15	
	SGS-Thomson	L78M15	
	TI	μA78M15	
μA78M18	Motorola	MC78M18	
μA78M24	Motorola	MC78M24	
	SGS-Thomson	L78M24	
	TI	μA78M24	
μA78P05	SemTech	LAS3905	
μA78S40	Motorola	μA78S40	
μA7805	Linfinity Micro	SG7805	
	National	LM140	
		LM340	
		LM7805	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
A7805			(Cont'd)
	Samsung	MC7805	
	SemTech	LAS1505	
	SGS-Thomson	L7805	
	TI	µA7805	
	Unitrode	UC7805	
A7806	Linfinity Micro	SG7806	
	Motorola	MC7808	
	National	LM7806	
	SemTech	LAS1506	
	SGS-Thomson	L7806	
	TI	µA7806	
A7808	Linfinity Micro	SG7808	
		SG7908	
	Motorola	MC7808	
	National	LM7808	
	Samsung	MC7808	
	SemTech	LAS1508	
	SGS-Thomson	L7808	
	TI	µA7808	
A7812	Linfinity Micro	SG7812	
	Motorola	MC7812	
	National	LM140	
		LM340	
		LM7812	
	Samsung	MC7812	
	SemTech	LAS1512	
	SGS-Thomson	L7812	
	TI	µA7812	
A7815	Linfinity Micro	SG7815	
	National	LM140	
		LM340	
		LM7815	
	Samsung	MC7815	
	SemTech	LAS1515	
	SGS-Thomson	L7815	
	TI	µA7815	
	Unitrode	UC7815	
A7818	Motorola	MC7818	
	National	LM7818	
	SemTech	LAS1518	
	SGS-Thomson	L7818	
	TI	µA7818	
A7820	Linfinity Micro	SG7820	
A7824	Linfinity Micro	SG7824	
	National	LM7824	
	Samsung	MC7824	
	SemTech	LAS1524	
	SGS-Thomson	L7824	
	TI	µA7824	
A7885	Samsung	MC7885	
A79L05	Motorola	MC79L05	
A79L12	Motorola	MC79L12	
A79L15	Motorola	MC79L15	
A79M05	Motorola	MC79M05	
	National	LM79M05	
	TI	µA79M05	
A79M06	Motorola	MC7906	
A79M06	Rochester	79M06	
A79M08	Motorola	MC79M08	
	TI	µA79M08	
A79M12	Motorola	MC79M12	
	National	LM79M12	
	TI	µA79M12	
A79M15	National	LM79M15	
	TI	µA79M15	
A79M18	Motorola	MC7918	
A79M24	Motorola	MC7924	
A7902	SemTech	LAS1802	
A7905	Linfinity Micro	SG7905	
	Motorola	MC7905	
	National	LM7905	
	Samsung	MC7905	
	SemTech	LAS1805	
	SGS-Thomson	L7905	
			(Continued)
µA7905			(Cont'd)
	TI	µA7905	
	Unitrode	UC7905	
µA7906	Motorola	MC7906	
	SemTech	LAS1806	
◆ µA7906	Rochester	7906	
µA7908	Motorola	MC7908	
	Samsung	MC7908	
	SemTech	LAS1808	
	SGS-Thomson	L7908	
	TI	µA7908	
µA7912	Linfinity Micro	SG7912	
	Motorola	MC7912	
	National	LM7912	
	Samsung	MC7912	
	SemTech	LAS1812	
	SGS-Thomson	L7912	
	TI	µA7912	
µA7915	Linfinity Micro	SG7915	
	Motorola	MC7915	
	National	LM7915	
	Samsung	MC7915	
	SemTech	LAS1815	
	SGS-Thomson	L7915	
	TI	µA7915	
	Unitrode	UC7915	
µA7918	Motorola	MC7918	
	SemTech	LAS1818	
µA7924	SemTech	LAS1824	
µA796	Linfinity Micro	SG1596	
	Motorola	MC1496	
		MC1596	
µA798	AnalogSys	MA336	
		MA372	
	Motorola	MC3458	
		MC3558	
µA799	Motorola	MC1741	
µA9614	Motorola	MC75S110	
µA9615	Motorola	MC75108	
µA9616	Motorola	MC1488	
◆ µA96172	National	DS96172	
	TI	SN75172	
◆ µA96173	National	DS96173	
	TI	SN75173	
◆ µA96174	National	DS96174	
	TI	SN75174	
◆ µA96175	National	DS96175	
	TI	SN75175	
◆ µA96176	National	DS96176	
	TI	SN75176	
µA96177	TI	SN75177	
◆ µA9621	Rochester	9621	
◆ µA9624	Rochester	9624	
µA9627	Motorola	MC1489	
µA9636	Motorola	MC3488	
	TI	µA9636	
◆ µA9636	National	DS9636	
µA9637	Motorola	MC3486	
	TI	µA9637	
◆ µA9637	Rochester	µA9637	
µA9638	Motorola	MC3487	
◆ µA9638	National	DS9638	
	Rochester	µA9638	
	TI	µA9638	
◆ µA9639	National	DS9639	
	TI	µA9639	
µA9640	Motorola	MC26S10	
		MC3440	
◆ µA9643	TI	SN75322	
		SN75363	
µA9665	Linfinity Micro	SG2001	
	Motorola	MC1411	
	SGS-Thomson	ULN2001	
		ULQ2001	
◆ µA9665	Allegro Micro	ULN2001	
	Motorola	MC1411	
	National	DS9665	
	Philips	µLN2001	
		NE5601	
µA9666	Linfinity Micro	SG2002	
	Motorola	MC1412	
	SGS-Thomson	ULN2002	
		ULQ2002	
			(Continued)
◆ µA9666	Allegro Micro	ULN2002	
	Motorola	MC1412	
	National	DS9666	
	Philips	NE5602	
µA9667	Linfinity Micro	SG2003	
	Motorola	MC1413	
	SGS-Thomson	ULN2003	
◆ µA9667	Allegro Micro	ULN2003	
	Motorola	MC1413	
	National	DS9667	
	Philips	µLN2003	
		NE5603	
µA9668	Motorola	MC1416	
	SGS-Thomson	ULN2004	
		ULQ2004	
◆ µA9668	Allegro Micro	ULN2004	
	Motorola	MC1416	
	National	DS9668	
	Philips	µLN2004	
		NE5604	
µPC4741	AD	OP22	
µPD100484	Cypress	CY100E484	
ADC032	LinearTech	LTC1091	
ADC0800	GEC Plessey	ZN449	
ADC0801	GEC Plessey	ZN447	
	Harris	ADC0801	
	Philips	ADC0801	
	TI	ADC0801	
ADC0802	GEC Plessey	ZN448	
	Harris	ADC0802	
	Philips	ADC0802	
	TI	ADC0802	
ADC0803	GEC Plessey	ZN448	
	Harris	ADC0803	
	Philips	ADC0803	
	TI	ADC0803	
ADC0804	GEC Plessey	ZN449	
	Harris	ADC0804	
	Philips	ADC0804	
	TI	ADC0804	
ADC0805	GEC Plessey	ZN449	
	Philips	ADC0805	
	TI	ADC0805	
ADC0808	GEC Plessey	ZN437	
	MicroLinear	ADC0808	
		ML2258	
	TI	ADC0808	
		TL0808	
ADC0808C	MicroLinear	ML2258BM	
ADC0808CC	MicroLinear	ML2258BI	
ADC0808CJ	TI	ADC0808	
ADC0809	GEC Plessey	ZN437	
	MicroLinear	ADC0808	
		ADC0809	
		ML2258	
	TI	ADC0809	
		TL0809	
ADC0809CC	MicroLinear	ML2258CI	
ADC0811	GEC Plessey	ZN437	
	Motorola	MC145040	
		MC145041	
	TI	TLC540	
		TLC541	
ADC0819	TI	TLC546	
ADC0820	AD	AD7575	
		AD7576	
		AD7820	
		PM0820	
	Crystal	CS7280	
	GEC Plessey	ZN439	
	LinearTech	LTC1099	
	Maxim	ADC0820	
		AD7820	
	MicroLinear	ML2261	
	MicroPwr	MP0820	
	Philips	ADC0820	
	TI	ADC0820	
		TLC0820	
ADC0829	TI	TLC533	
◆ ADC0829	Motorola	MC14442	
	TI	TLC532	
		TLC533	
		TL532	
		TL533	
ADC0830	Motorola	MC14444	
	TI	TLC546	
			(Continued)
ADC0830	TI		(Cont'd)
		TL530	
		TL531	
ADC0831	GEC Plessey	ZN509	
	MicroLinear	ADC0831	
		ML2281	
	TI	ADC0831	
		TLC549	
ADC0831BC	MicroLinear	ML2281BC	
		ML2281BI	
ADC0831CC	MicroLinear	ML2281CC	
		ML2281CI	
ADC0832	MicroLinear	ADC0832	
		ML2282	
	TI	ADC0832	
ADC0832BC	MicroLinear	ML2282BC	
		ML2282BI	
ADC0832CC	MicroLinear	ML2282CC	
		ML2282CI	
ADC0833	MicroLinear	ADC0833	
		ML2283	
ADC0833B	MicroLinear	ML2283BM	
ADC0833BC	MicroLinear	ML2283BC	
		ML2283BI	
ADC0833CC	MicroLinear	ML2283CC	
		ML2283CI	
ADC0834	MicroLinear	ADC0834	
		ML2284	
	TI	ADC0834	
ADC0834BC	MicroLinear	ML2284BC	
		ML2284BI	
ADC0834CC	MicroLinear	ML2284CC	
		ML2284CI	
ADC0838	MicroLinear	ADC0838	
		ML2288	
	TI	ADC0838	
ADC0838BC	MicroLinear	ML2288BC	
		ML2288BI	
ADC0838CC	MicroLinear	ML2288CC	
		ML2288CI	
ADC0841	AD	AD673	
	Philips	NE5034	
ADC0848	TI	TL520	
		TL521	
		TL522	
ADC1001	GEC Plessey	ZN432	
		ZN501	
		ZN502	
	TI	TLC1541	
ADC1005	AD	ADC910	
		AD573	
		AD7571	
	GEC Plessey	ZN504	
	TI	TLC1541	
ADC1021	GEC Plessey	ZN432	
		ZN501	
		ZN502	
ADC1025	AD	ADC910	
		AD7571	
	GEC Plessey	ZN504	
ADC1061	MicroLinear	ML2271	
ADC1061CI	MicroLinear	ML2271CC	
		ML2271CI	
ADC1061CM	MicroLinear	ML2271CM	
ADC1080	Burr-Brown	ADC80	
	GEC Plessey	ZN432	
		ZN501	
ADC1205	AD	AD7578	
	Harris	ICL7114	
ADC1210	Harris	HI574	
ADC1211	Harris	HI574	
◆ ADC1220	AD	AD7552	
ADC1225	AD	AD7552	
		AD7578	
	Harris	ICL7114	
	TI	TLC1225	
ADC12451	Maxim	MAX180	
ADC1280	Burr-Brown	ADC80	
ADC3511	GEC Plessey	ZN451	
	TI	ICL7135	
		TLC7135	
		TL500	
		TL501	
		TL503	
ADC3711	GEC Plessey	ZN451	
	TI	ICL7135	
		TLC7135	
		TL500	
		TL501	
		TL503	
ADC574	MicroPwr	MP574	

iscontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ADD3501	TI	TL500	
		TL501	
		TL502	
ADD3701	TI	TL500	
		TL501	
		TL502	
AD7520	AD	PM7533	
	Unitrode	PIC7520	
AD7521	AD	PM7541	
	Burr-Brown	DAC7541	
AD7530	AD	PM7533	
	Unitrode	PIC7530	
AD7531	AD	PM7541	
	Burr-Brown	DAC7541	
	Unitrode	PIC7531	
AD7533	Unitrode	PIC7533	
♦ AH5009	Harris	IH5009	
AH5010	Harris	IH5010	
AH5011	Harris	IH5011	
AH5012	Harris	IH5012	
AH5020	Harris	HI300	
♦ AM2905	Lansdale	AL2905	
♦ AM2906	Lansdale	AL2906	
♦ AM2915	Lansdale	AL2915	
CA3146M	National	LM3146M	
CD4001	GoldStar	GD4001	
CD4002	GoldStar	GD4002	
CD4006	GoldStar	GD4006	
CD4007	GoldStar	GD4007	
CD4008	GoldStar	GD4008	
♦ CD4008	Rochester	54C83	
CD4011	GoldStar	GD4011	
CD4012	GoldStar	GD4012	
CD4013	GoldStar	GD4013	
CD4014	GoldStar	GD4014	
CD4015	GoldStar	GD4015	
CD4016	GoldStar	GD4016	
	Unitrode	PIC7516	
CD4017	GoldStar	GD4017	
CD4018	GoldStar	GD4018	
CD4019	GoldStar	GD4019	
CD4020	GoldStar	GD4020	
CD4021	GoldStar	GD4021	
CD4023	GoldStar	GD4023	
CD40232	GoldStar	GD4022	
CD4024	GoldStar	GD4024	
CD4025	GoldStar	GD4025	
CD4027	GoldStar	GD4027	
CD4028	GoldStar	GD4028	
CD4029	GoldStar	GD4029	
CD4030	GoldStar	GD4030	
CD4034	GoldStar	GD4034	
CD4035	GoldStar	GD4035	
CD4040	GoldStar	GD4040	
CD4041	GoldStar	GD4041	
CD4042	GoldStar	GD4042	
CD4043	GoldStar	GD4043	
CD4044	GoldStar	GD4044	
CD4046	GoldStar	GD4046	
CD4047	GoldStar	GD4047	
CD4049	GoldStar	GD4049	
CD4050	GoldStar	GD4050	
CD4051	GoldStar	GD4051	
CD4052	GoldStar	GD4052	
CD4053	GoldStar	GD4053	
CD4066	AD	AD7516	
	GoldStar	GD4066	
	Raytheon	TL4066	
	Unitrode	PIC7516	
CD4069	GoldStar	GD4069	
CD4070	GoldStar	GD4070	
CD4071	GoldStar	GD4071	
CD4075	GoldStar	GD4075	
CD4076	GoldStar	GD4076	
CD4081	GoldStar	GD4081	
CD4093	GoldStar	GD4093	
CD4510	GoldStar	GD4510	
CD4511	GoldStar	GD4511	
♦ CD4511	Rochester	14511	
CD4516	GoldStar	GD4516	
CD4518	GoldStar	GD4518	
CD4520	GoldStar	GD4520	
♦ CD4520	Rochester	14520	
CD4723	GoldStar	GD4723	
CD4724	GoldStar	GD4724	
CGS54C2525	National	CGS54C2526	
CGS54C2526	National	CGS54C2525	
CGS74C2525	National	MM74C244	
CGS74C2526	National	MM74C30	
COP310	SGS-Thomson	ETC9310	
		ETL9310	
COP311	SGS-Thomson	ETC9311	
		ETL9311	
COP313	SGS-Thomson	ETL9313	
COP320	SGS-Thomson	ETL9320	
		ET9320	
COP321	SGS-Thomson	ETL9321	
		ET9321	
COP322	SGS-Thomson	ETL9322	
		ET9322	
COP324	SGS-Thomson	ETC9320	
COP325	SGS-Thomson	ETC9321	
COP344	SGS-Thomson	ETC9344	
		ETL9344	
COP345	SGS-Thomson	ETC9345	
		ETL9345	
COP410	SGS-Thomson	ETC9410	
		ETL9410	
COP411	SGS-Thomson	ETC9411	
		ETL9411	
COP413	SGS-Thomson	ETL9413	
COP420	SGS-Thomson	ETL9420	
		ET9420	
COP421	SGS-Thomson	ETL9421	
		ET9421	
COP422	SGS-Thomson	ETL9422	
		ET9422	
COP424	SGS-Thomson	ETC9420	
COP425	SGS-Thomson	ETC9421	
COP444	SGS-Thomson	ETC9444	
		ETL9444	
COP445	SGS-Thomson	ETC9445	
		ETL9445	
COP495	**Catalyst Semi**	**CAT93C46**	**(3565)**
COP800	Hitachi	HD6305	
DAC08	Motorola	DAC08	
	Raytheon	DAC08	
DAC0800	AD	ADDAC08	
		DAC08	
	GEC Plessey	ZN429	
	Motorola	DAC08	
	Philips	DAC08	
DAC0801	AD	ADDAC08	
		DAC08	
	Harris	ADC0801	
	Motorola	DAC08	
	Philips	DAC08	
		NE5009	
DAC0802	AD	ADDAC08	
		DAC08	
	GEC Plessey	ZN426	
	Motorola	DAC08	
	Philips	DAC08	
		NE5007	
DAC0806	AD	DAC1408	
	GEC Plessey	ZN436	
	Motorola	MC1408	
	Philips	MC1408	
	SGS-Thomson	DAC0806	
DAC0807	AD	DAC1408	
	GEC Plessey	ZN429	
	Motorola	MC1408	
	Philips	MC1408	
	SGS-Thomson	DAC0807	
DAC0808	AD	DAC1408	
	GEC Plessey	ZN429	
	Motorola	MC1408	
		MC1508	
	Philips	MC1408	
		MC1508	
		MC1508-8	
			(Continued)
DAC0808			(Cont'd)
	SGS-Thomson	DAC0808	
DAC0830	AD	DAC888	
	GEC Plessey	ZN428	
		ZN558	
	Philips	NE5118	
		SE5118	
DAC0831	AD	ADA724	
		DAC888	
	GEC Plessey	ZN428	
		ZN558	
DAC0832	AD	DAC888	
	GEC Plessey	ZN428	
		ZN558	
DAC1002	GEC Plessey	ZN428	
		ZN558	
DAC1008	GEC Plessey	ZN428	
		ZN558	
DAC1020	AD	AD100	
		AD7530	
		AD7533	
		DAC02	
		DAC03	
		DAC05	
		PM7533	
	Harris	AD7520	
		AD7530	
		AD7533	
	Maxim	AD7533	
	MicroPwr	MP7533	
		MP763	
		MP7633	
	Motorola	MC3410	
		MC3510	
	Philips	NE5410	
		SE5410	
	Raytheon	DAC10	
	Unitrode	PIC7520	
DAC1021	AD	AD7533	
		DAC02	
		DAC03	
		DAC05	
		DAC100	
		PM7533	
	Harris	AD7520	
		AD7530	
		AD7533	
	Maxim	AD7533	
	MicroPwr	MP7533	
		MP763	
		MP7633	
	Raytheon	DAC10	
	Unitrode	PIC7520	
DAC1022	AD	AD7533	
		DAC02	
		DAC03	
		DAC05	
		DAC100	
		PM7533	
	GEC Plessey	ZN429	
	Harris	AD7520	
		AD7530	
		AD7533	
	Maxim	AD7533	
	MicroPwr	MP7533	
		MP763	
		MP7633	
	Unitrode	PIC7520	
DAC1208	AD	AD7542	
		AD7545	
		DAC8012	
	MicroPwr	MP1208	
DAC1209	AD	AD7542	
		AD7545	
		DAC8012	
	MicroPwr	MP1209	
DAC1210	AD	AD7542	
		AD7545	
		DAC8012	
	MicroPwr	MP1210	
DAC1218	AD	AD7541	
		PM7541	
	Harris	AD7541	
	MicroPwr	MP7623	
DAC1219	AD	AD7541	
		PM7541	
	Harris	AD7541	
	MicroPwr	MP7623	
DAC1220	AD	PM7541	
	Harris	AD7521	
		AD7531	
	MicroPwr	MP7623	
			(Continued)
DAC1221	AD	PM7541	
	Harris	AD7521	
		AD7531	
	MicroPwr	MP7541	
		MP7623	
DAC1222	AD	PM7541	
	GEC Plessey	ZN429	
	Harris	AD7521	
		AD7531	
	MicroPwr	MP7541	
DAC1230	AD	AD567	
		AD7548	
	MicroPwr	MP1230	
DAC1231	AD	AD7548	
	MicroPwr	MP1231	
DAC1232	AD	AD7548	
	MicroPwr	MP1232	
DAC1265	AD	AD563	
		AD566	
	Harris	HI565	
		HI565A	
	Maxim	AD565	
		MX565	
	Motorola	AD563	
		MC3412	
DAC1266	AD	AD562	
		AD566	
		DAC312	
	Harris	HI5660	
	Maxim	AD566	
	Motorola	AD562	
DAC1280	Burr-Brown	DAC80	
	MicroNet	DAC80	
♦ DAC1280	AD	ADDAC80	
DAC1285	Burr-Brown	DAC85	
		DAC85H	
		DAC87H	
	MicroNet	DAC85	
DAC1286	Burr-Brown	DAC80	
DAC1287	Burr-Brown	DAC85H	
		DAC87	
		DAC87H	
DAC1508	National	MC1508	
♦ DAC2180	AD	ADDAC85	
DAC7541	MicroPwr	MP7541	
DAC7545	MicroPwr	MP7545	
DAC801	GEC Plessey	ZN429	
DMPAL10H8	AMD	AMPAL18P8	
DMPAL10L8	AMD	AMPAL18P8	
DMPAL12H6	AMD	AMPAL18P8	
DMPAL12L10	AMD	AMPAL22P10	
DMPAL12L6	AMD	AMPAL18P8	
DMPAL14H4	AMD	AMPAL18P8	
DMPAL14L4	AMD	AMPAL18P8	
DMPAL14L8	AMD	AMPAL22P10	
DMPAL16H2	AMD	AMPAL18P8	
DMPAL16L2	AMD	AMPAL18P8	
DMPAL16L6	AMD	AMPAL22P10	
DMPAL16L8	AMD	PAL16L8	
DMPAL16R4	AMD	PAL16R4	
DMPAL16R6	AMD	PAL16R6	
DMPAL16R8	AMD	PAL16R8	
DMPAL18L4	AMD	AMPAL22P10	
DMPAL20L2	AMD	AMPAL22P10	
DMPAL20RP8	AMD	PAL22V10	
DMPAL20R4	AMD	PAL20R4	
DMPAL20R8	AMD	PAL20R8	
DMP20R6	AMD	PAL20R6	
DM100422	Cypress	CY100E422	
DM100474	Cypress	CY100E474	
	NEC	µPB100474	
DM100494	Cypress	CY100E494	
DM10422	Cypress	CY10E422	
DM10474	Cypress	CY10E474	
	NEC	µPB10474	
DM10494	Cypress	CY10E494	
♦ DM1800	Lansdale	ML1800	
		SL8415	
DM25C02	Samsung	KS25C02	
♦ DM2502	Rochester	2502	
		7605	
		8605	
♦ DM2503	Rochester	2503	
		7603	
		8603	
♦ DM2504	Rochester	2504	
		7604	
		8604	
♦ DM29002	Rochester	9002	
♦ DM52H20	Rochester	54H20	
DM54ALS11	TI	SN54ALS109A	
		SN54ALS11A	
DM54ALS165	TI	SN54ALS165	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM54ALS174	Rochester	54ALS174	
	TI	SN54ALS169B	
		SN54ALS174	
DM54ALS651	Rochester	54ALS652	
	TI	SN54ALS652	
DM54AS240	TI	SN54AS240	
DM54AS881B	TI	SN54AS882A	
◆ DM54H00	**Lansdale**	**ML54H00**	**(3669)**
		SL54H00	
		SL8H80	
◆ DM54H00	Rochester	54H00	
◆ DM54H01	**Lansdale**	**ML54H01**	**(3669)**
		SL54H01	
◆ DM54H01	Rochester	54H01	
◆ DM54H04	**Lansdale**	**ML54H04**	**(3669)**
	Rochester	54H04	
◆ DM54H05	**Lansdale**	**ML54H05**	**(3669)**
	Rochester	54H05	
◆ DM54H08	**Lansdale**	**ML54H08**	**(3669)**
		SL54H08	
◆ DM54H08	Rochester	54H08	
◆ DM54H10	**Lansdale**	**ML54H10**	**(3669)**
		SL54H10	
		SL8H70	
◆ DM54H10	Rochester	54H10	
◆ DM54H103	**Lansdale**	**ML54H103**	**(3669)**
		SL54H103	
◆ DM54H103	Rochester	54H103	
◆ DM54H106	Rochester	54H106	
◆ DM54H108	**Lansdale**	**ML54H108**	**(3669)**
		SL54H108	
◆ DM54H108	Rochester	54H108	
◆ DM54H11	**Lansdale**	**ML54H11**	**(3669)**
		SL54H11	
◆ DM54H11	Rochester	54H11	
◆ DM54H20	**Lansdale**	**ML54H20**	**(3669)**
		SL54H20	
		SL8H16	
◆ DM54H21	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
◆ DM54H21	Rochester	54H21	
◆ DM54H22	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
◆ DM54H22	Rochester	54H22	
◆ DM54H30	**Lansdale**	**ML54H30**	**(3669)**
		SL54H30	
◆ DM54H30	Rochester	54H30	
◆ DM54H40	**Lansdale**	**ML54H40**	**(3669)**
		SL54H40	
◆ DM54H40	Rochester	54H40	
◆ DM54H50	**Lansdale**	**ML54H50**	**(3669)**
	Rochester	54H50	
◆ DM54H51	**Lansdale**	**ML54H51**	**(3669)**
	Rochester	54H51	
◆ DM54H52	**Lansdale**	**ML54H52**	**(3669)**
		SL54H52	
◆ DM54H52	Rochester	54H52	
◆ DM54H53	**Lansdale**	**ML54H53**	**(3669)**
		SL54H53	
◆ DM54H53	Rochester	54H53	
◆ DM54H54	**Lansdale**	**ML54H54**	**(3669)**
		SL54H54	
◆ DM54H54	Rochester	RC3133	
		54H54	
◆ DM54H55	**Lansdale**	**ML54H55**	**(3669)**
		SL54H55	
◆ DM54H55	Rochester	RC134	
		54H55	
◆ DM54H60	**Lansdale**	**ML54H60**	**(3669)**
		ML54H61	**(3669)**
		SL54H60	
		SL54H61	
◆ DM54H60	Rochester	RC3130	
		54H60	
◆ DM54H61	**Lansdale**	**ML54H61**	**(3669)**
	Rochester	RC3119	
		54H61	
◆ DM54H62	**Lansdale**	**ML54H62**	**(3669)**
		SL54H62	
◆ DM54H62	Rochester	RC3118	
		54H62	
◆ DM54H71	**Lansdale**	**ML54H71**	**(3669)**
		SL54H71	
◆ DM54H71	Rochester	RC3143	
		54H71	
◆ DM54H72	**Lansdale**	**ML54H72**	**(3669)**
		SL54H72	
◆ DM54H72	Rochester	RC3155	
		54H72	
◆ DM54H73	**Lansdale**	**ML54H73**	**(3669)**
		SL54H73	
◆ DM54H73	Rochester	54H73	
◆ DM54H74	**Lansdale**	**ML54H74**	**(3669)**
		SL54H74	
◆ DM54H74	Rochester	54H74	
◆ DM54H76	Rochester	54H76	
◆ DM54H78	Rochester	54H78	
◆ DM54H87	**Lansdale**	**ML54H87**	**(3669)**
	Rochester	RC3100	
DM54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
	Motorola	SN54LS00	
	National	54LS00	
	Rochester	54LS00	
	SGS-Thomson		
		T54LS00	
		54LS00	
	TI	SN54LS00	
DM54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	54LS02	
	Rochester	54LS02	
	SGS-Thomson		
		T54LS02	
		54LS02	
	TI	SN54LS02	
DM54LS03	Motorola	SN54LS03	
	National	54LS03	
	Rochester	54LS03	
	SGS-Thomson		
		54LS03	
	TI	SN54LS03	
DM54LS04	GoldStar	GD54LS04	
		54LS04	
	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	54LS04	
	SGS-Thomson		
		T54LS04	
		54LS04	
	TI	SN54LS04	
DM54LS05	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	54LS05	
	Rochester	54LS05	
	SGS-Thomson		
		T54LS05A	
		54LS05	
	TI	SN54LS05	
DM54LS08	GoldStar	GD54LS08	
	Lansdale	SL54LS08	
	Motorola	SN54LS08	
	National	54LS08	
	TI	SN54LS08	
DM54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	54LS09	
	SGS-Thomson		
		T54LS09	
		54LS09	
	TI	SN54LS09	
DM54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	Motorola	SN54LS10	
	National	54LS10	
	SGS-Thomson		
		T54LS10	
		54LS10	
	TI	SN54LS10	
DM54LS107A	GoldStar	GD54LS107A	
	Lansdale	SL54LS107	
	Motorola	SN54LS107A	
	TI	SN54LS107A	
DM54LS109	GoldStar	GD54LS109A	
	Lansdale	SL54LS109	
	Motorola	SN54LS109A	
	National	54LS109	
	TI	SN54LS109A	
DM54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	Motorola	SN54LS11	
	National	54LS11	
	SGS-Thomson		
		T54LS11	
		54LS11	
	TI	SN54LS11	
DM54LS112	Rochester	54LS112	
DM54LS113	Rochester	54LS113	

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM54LS12	Motorola	SN54LS12	
	TI	SN54LS12	
DM54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125	
		SL54LS125A	
	Motorola	SN54LS125A	
	National	54LS125A	
	SGS-Thomson		
		54LS125A	
	TI	SN54LS125A	
DM54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	SGS-Thomson		
		T54LS132	
		54LS132	
	TI	SN54LS132	
DM54LS136	Lansdale	SL54LS136	
	Motorola	SN54LS136	
	National	54LS136	
	SGS-Thomson		
		T54LS136	
		54LS136	
	TI	SN54LS136	
DM54LS138	GoldStar	GD54LS138	
	Motorola	SN54LS138	
	National	54LS138	
	Rochester	54LS138	
	SGS-Thomson		
		T54LS138	
		54LS138	
	TI	SN54LS138	
DM54LS139	GoldStar	GD54LS139	
	Lansdale	54LS139	
	Motorola	SN54LS139	
	National	54LS139	
	SGS-Thomson		
		T54LS139	
		54LS139	
	TI	SN54LS139A	
DM54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	54LS151	
	SGS-Thomson		
		T54LS151	
		54LS151	
	TI	SN54LS151	
DM54LS153	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	Motorola	SN54LS153	
	National	54LS152	
		54LS153	
	TI	SN54LS153	
DM54LS154	GoldStar	GD54LS154	
	Lansdale	SL54LS154	
DM54LS155	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	Motorola	SN54LS155	
	National	54LS155	
	SGS-Thomson		
		T54LS155	
		54LS155	
	TI	SN54LS155A	
DM54LS156	Lansdale	SL54LS156	
	Motorola	SN54LS156	
	National	54LS156	
	SGS-Thomson		
		T54LS156	
		54LS156	
	TI	SN54LS156	
DM54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	Motorola	SN54LS157	
	National	54LS157	
	SGS-Thomson		
		T54LS157	
		54LS157	
	TI	SN54LS157	
DM54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	Motorola	SN54LS158	
	National	54LS158	
	Rochester	54LS158	
	SGS-Thomson		
		T54LS158	
		54LS158	
	TI	SN54LS158	
DM54LS161A	GoldStar	GD54LS161A	
	Motorola	SN54LS161A	
	National	54LS161	
	TI	SN54LS161A	
◆ DM54LS162	Lansdale	SL54LS162A	
	Motorola	SN54LS162A	
	National	54LS162A	
	TI	SN54LS162A	
DM54LS163A	GoldStar	GD54LS163A	
	Lansdale	SL54LS163A	
	Motorola	SN54LS163A	
	National	54LS163A	
	TI	SN54LS163A	
DM54LS164	GoldStar	GD54LS164	
	Lansdale	SL54LS164	
	Motorola	SN54LS164	
	National	54LS164	
	Rochester	54LS164	
	TI	SN54LS164	
DM54LS168A	Motorola	SN54LS168	
	National	54LS168	
	SGS-Thomson		
		T54LS168	
DM54LS169A	Lansdale	SL54LS169A	
	Motorola	SN54LS169	
	National	54LS169	
	SGS-Thomson		
		T54LS169	
	TI	SN54LS169B	
DM54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	54LS174	
	Rochester	54LS174	
	SGS-Thomson		
		T54LS174	
		54LS174	
	TI	SN54LS174	
DM54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	54LS175	
	SGS-Thomson		
		T54LS175	
		54LS175	
	TI	SN54LS175	
DM54LS190	Motorola	SN54LS190	
	TI	SN54LS190	
DM54LS191	GoldStar	GD54LS191	
	Lansdale	SL54LS191	
	Motorola	SN54LS191	
	TI	SN54LS191	
DM54LS193	GoldStar	GD54LS193	
	Motorola	SN54LS193	
	National	54LS193	
	SGS-Thomson		
		T54LS193	
		54LS193	
	TI	SN54LS193	
◆ DM54LS196	Lansdale	SL8292	
◆ DM54LS197	Lansdale	SL8293	
DM54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	54LS20	
	Rochester	54LS20	
	SGS-Thomson		
		T54LS20	
		54LS20	
	TI	SN54LS20	
DM54LS21	GoldStar	GD54LS21	
	Lansdale	SL54LS21	
	Motorola	SN54LS21	
	National	54LS21	
	TI	SN54LS21	
DM54LS221	GoldStar	GD54LS221	
	Motorola	SN54LS221	
	TI	SN54LS221	
DM54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	54LS240	
	SGS-Thomson		
		T54LS240	
		54LS240	
	TI	SN54LS240	
DM54LS241	GoldStar	GD54LS241	
	Lansdale	SL54LS241	
	Motorola	SN54LS241	
	National	54LS241	
	TI	SN54LS241	
DM54LS242	GoldStar	GD54LS242	
	Lansdale	SL54LS242	
	Motorola	SN54LS242	
	TI	SN54LS242	
DM54LS243	GoldStar	GD54LS243	
	Lansdale	SL54LS243	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM54LS243			(Cont'd)
	Motorola	SN54LS243	
	TI	SN54LS243	
DM54LS244	Rochester	54LS244	
DM54LS245	GoldStar	GD54LS245	
	Lansdale	SL54LS245	
	Motorola	SN54LS245	
	National	54LS245	
	TI	SN54LS245	
DM54LS251	GoldStar	GD54LS251	
	Lansdale	SL54LS251	
	Motorola	SN54LS251	
	TI	SN54LS251	
DM54LS253	Lansdale	SL54LS253	
	Motorola	SN54LS253	
	National	54LS253	
	Rochester	54LS253	
	TI	SN54LS253	
DM54LS257B	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
	National	54LS257A	
	TI	SN54LS257B	
DM54LS258B	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	54LS258A	
	SGS-Thomson	T54LS258A	
		54LS258	
	TI	SN54LS258B	
DM54LS259	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	54LS259	
	SGS-Thomson	T54LS259	
		54LS259	
	TI	SN54LS259B	
DM54LS26	GoldStar	GD54LS26	
	Lansdale	SL54LS26	
	Motorola	SN54LS26	
	National	54LS26	
	TI	SN54LS26	
DM54LS266	Rochester	54LS266	
DM54LS27	GoldStar	GD54LS27	
	Motorola	SN54LS27	
	National	54LS27	
	Rochester	54LS27	
	SGS-Thomson	T54LS27	
		54LS27	
	TI	SN54LS27	
DM54LS279	Motorola	SN54LS279	
	National	54LS279	
	Rochester	54LS279	
	SGS-Thomson	T54LS279	
		54LS279	
	TI	SN54LS279A	
DM54LS283	GoldStar	GD54LS283	
	Lansdale	SL54LS283	
	Motorola	SN54LS283	
	National	54LS283	
	Rochester	54LS283	
	SGS-Thomson	54LS283	
	TI	SN54LS283	
DM54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
	Motorola	SN54LS30	
	National	54LS30	
	SGS-Thomson	T54LS30	
		54LS30	
	TI	SN54LS30	
DM54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	54LS32	
	SGS-Thomson	T54LS32	
		54LS32	
	TI	SN54LS32	
DM54LS352	Lansdale	SL54LS352	
	Motorola	SN54LS352	
	National	54LS352	
			(Continued)
DM54LS352			(Cont'd)
	SGS-Thomson	T54LS352	
	TI	SN54LS352	
DM54LS365A	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	54LS365	
	SGS-Thomson	T54LS365A	
		54LS365	
	TI	SN54LS365A	
DM54LS366A	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	54LS366	
	SGS-Thomson	T54LS366A	
		54LS366	
	TI	SN54LS366A	
DM54LS367A	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	54LS367	
	SGS-Thomson	T54LS367A	
		54LS367	
	TI	SN54LS367A	
DM54LS368	Rochester	54LS368	
DM54LS368A	GoldStar	GD54LS368A	
	Motorola	SN54LS368A	
	National	54LS368	
	SGS-Thomson	T54LS368A	
		54LS368	
	TI	SN54LS368A	
DM54LS37	Lansdale	SL54LS37	
	Motorola	SN54LS37	
	National	54LS37	
	SGS-Thomson	T54LS37	
		54LS37	
	TI	SN54LS37	
DM54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
	Motorola	SN54LS373	
	Rochester	54LS373	
	SGS-Thomson	T54LS373	
		54LS373	
	TI	SN54LS373	
DM54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	54LS374	
	SGS-Thomson	T54LS374	
		54LS374	
	TI	SN54LS374	
DM54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	54LS38	
	Rochester	54LS38	
	SGS-Thomson	T54LS38	
		54LS38	
	TI	SN54LS38	
♦ DM54LS386	Lansdale	SL8241	
DM54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	54LS42	
	Rochester	54LS42	
	SGS-Thomson	T54LS42	
		54LS42	
	TI	SN54LS42	
DM54LS471	Motorola	SN54LS48	
	National	54LS48	
	TI	SN54LS48	
DM54LS51	Rochester	54LS51	
♦ DM54LS54	Lansdale	SL8848	
DM54LS670	GoldStar	GD54LS670	
	Lansdale	**SL54LS670**	**(3674)**
	Motorola	SN54LS670	
	National	54LS670	
	SGS-Thomson	54LS670	
	TI	SN54LS670	
DM54LS73A	GoldStar	GD54LS73A	
	Lansdale	SL54LS73	
	Motorola	SN54LS73A	
	TI	SN54LS73A	
			(Continued)
DM54LS74	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	54LS74	
	SGS-Thomson	T54LS74A	
		54LS74	
	TI	SN54LS74A	
DM54LS75	Lansdale	SL54LS75	
	Motorola	SN54LS748	
		SN54LS75	
	TI	SN54LS75	
DM54LS83A	Lansdale	SL54LS83A	
	Motorola	SN54LS83A	
	National	54LS83A	
	SGS-Thomson	54LS83A	
	TI	SN54LS83A	
DM54LS85	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS848	
		SN54LS85	
	National	54LS85	
	Rochester	54LS85	
	TI	SN54LS85	
DM54LS86	GoldStar	GD54LS86	
	Lansdale	SL54LS86	
	Motorola	SN54LS86	
	TI	SN54LS86A	
DM54LS93	Rochester	54LS93	
DM54LS95	Rochester	54LS95	
♦ DM54L00	Rochester	54L00	
		9L00	
♦ DM54L01	Rochester	54L01	
♦ DM54L02	Rochester	54L02	
♦ DM54L03	Rochester	54L03	
♦ DM54L04	Rochester	54L04	
		9L04	
♦ DM54L10	Rochester	54L10	
♦ DM54L121	Rochester	54L121	
♦ DM54L123	Rochester	54L123	
♦ DM54L154	Rochester	54L154	
♦ DM54L154A	Rochester	93L11	
♦ DM54L157	Rochester	54L157	
♦ DM54L157A	Rochester	93L22	
♦ DM54L164	Rochester	54L164	
♦ DM54L165	Rochester	54L165	
♦ DM54L192	Rochester	54L192	
♦ DM54L193	Rochester	54L193	
♦ DM54L20	Rochester	54L20	
♦ DM54L30	Rochester	54L30	
♦ DM54L42	Rochester	54L42	
♦ DM54L51	Rochester	54L51	
♦ DM54L54	Rochester	54L54	
		9L54	
♦ DM54L55	Rochester	54L55	
♦ DM54L71	Rochester	54L71	
♦ DM54L74	Rochester	54L74	
♦ DM54L75	Rochester	54L75	
♦ DM54L78	Rochester	54L78	
♦ DM54L85	Rochester	54L85	
♦ DM54L86	Rochester	54L86	
♦ DM54L91	Rochester	54L91	
♦ DM54L95	Rochester	54L95	
♦ DM54L98	Rochester	54L98	
♦ DM54L99	Rochester	54L99	
DM54S00	GoldStar	GD54S00	
	Lansdale	**SL54S00**	**(3674)**
	Rochester	54S00	
	TI	SN54S00	
DM54S02	GoldStar	GD54S02	
	Lansdale	**SL54S02**	**(3674)**
	Rochester	54S02	
	TI	SN54S02	
DM54S03	**Lansdale**	**SL54S03**	**(3674)**
	TI	SN54S03	
DM54S04	GoldStar	GD54S04	
	Lansdale	**SL54S04**	**(3674)**
	Rochester	54S04	
	TI	SN54S04	
DM54S08	GoldStar	GD54S08	
	Lansdale	**SL54S08**	**(3674)**
	Rochester	54S08	
	TI	SN54S08	
DM54S10	GoldStar	GD54S10	
	Lansdale	**SL54S10**	**(3674)**
	Rochester	54S10	
	TI	SN54S10	
DM54S11	**Lansdale**	**SL54S11**	**(3674)**
	Rochester	54S11	
	TI	SN54S11	
DM54S112	GoldStar	GD54S112	
	Lansdale	**SL54S112**	**(3674)**
			(Continued)
DM54S112			(Cont'd)
	Rochester	54S112	
	TI	SN54S112	
DM54S113	Rochester	54S113	
	TI	SN54S113	
DM54S133	GoldStar	GD54S133	
	Lansdale	**SL54S133**	**(3674)**
	Rochester	54S133	
	TI	SN54S133	
DM54S138	GoldStar	GD54S138	
	Lansdale	**SL54S138**	**(3674)**
	Rochester	54S138	
	TI	SN54S138	
♦ DM54S138	Rochester	54S138	
DM54S139	GoldStar	GD54S139	
	Lansdale	**SL54S139**	**(3674)**
	Rochester	54S139	
	TI	SN54S139	
DM54S140	**Lansdale**	**SL54S140**	**(3674)**
	Rochester	54S140	
	TI	SN54S140	
♦ DM54S140	Rochester	54S140	
DM54S151	**Lansdale**	**SL54S151**	**(3674)**
	Rochester	54S151	
	TI	SN54S151	
DM54S153	GoldStar	GD54S153	
	Lansdale	**SL54S153**	**(3674)**
	Rochester	54S153	
	TI	SN54S153	
DM54S157	GoldStar	GD54S157	
	Lansdale	**SL54S157**	**(3674)**
	Rochester	54S157	
	TI	SN54S157	
DM54S158	GoldStar	GD54S158	
	Lansdale	**SL54S158**	**(3674)**
	Rochester	54S158	
	TI	SN54S158	
DM54S163	Rochester	54S163	
DM54S174	GoldStar	GD54S174	
	Lansdale	**SL54S174**	**(3674)**
	Rochester	54S174	
	TI	SN54S174	
DM54S175	GoldStar	GD54S175	
	Lansdale	**SL54S175**	**(3674)**
	Rochester	54S175	
	TI	SN54S175	
♦ DM54S181	**Lansdale**	**SL54S181**	**(3674)**
	Rochester	54S181	
♦ DM54S182	Lansdale	SL54S182	
	Rochester	54S182	
DM54S188	National	DM54S188A	
DM54S188A	National	DM54S188	
DM54S189	Cypress	CY27LS03	
		CY27S03	
		CY27S03A	
		CY7C189	
		CY74S189	
	Lansdale	**SL54S189**	**(3674)**
	National	DM54S189A	
	Rochester	54S189	
♦ DM54S189	Rochester	54S189	
DM54S189A	Cypress	CY74S189	
	Lansdale	**SL54S189**	**(3674)**
	National	DM54S189	
	Rochester	54S189	
DM54S194	**Lansdale**	**SL54S194**	**(3674)**
	Rochester	54S194	
	TI	SN54S194	
♦ DM54S194	Rochester	54S194	
DM54S195	**Lansdale**	**SL54S195**	**(3674)**
	Rochester	54S195	
	TI	SN54S195	
♦ DM54S195	Rochester	54S195	
DM54S20	GoldStar	GD54S20	
	Lansdale	**SL54S20**	**(3674)**
	Rochester	54S20	
	TI	SN54S20	
DM54S240	GoldStar	GD54S240	
	Lansdale	**SL54S240**	**(3674)**
	Rochester	54S240	
		54S241	
	TI	SN54S240	
DM54S241	GoldStar	GD54S241	
	Lansdale	**SL54S241**	**(3674)**
	TI	SN54S241	
DM54S244	Rochester	54S244	
DM54S251	GoldStar	GD54S251	
	Lansdale	**SL54S251**	**(3674)**
	Rochester	54S251	
	TI	SN54S251	
♦ DM54S251	Rochester	54S251	
DM54S253	**Lansdale**	**SL54S253**	**(3674)**
	Rochester	54S253	
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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM54S257	GoldStar	GD54S257	
	Lansdale	**SL54S257**	**(3674)**
	Rochester	54S257	
	TI	SN54S257	
DM54S258	**Lansdale**	**SL54S258**	**(3674)**
	Rochester	54S258	
	TI	SN54S258	
DM54S280	GoldStar	GD54S280	
	Lansdale	**SL54S280**	**(3674)**
	TI	SN54S280	
DM54S283	Rochester	54S283	
DM54S287	TI	SN54S283	
DM54S288	National	DM54S288A	
DM54S288A	National	DM54S288	
DM54S30	GoldStar	GD54S30	
	Rochester	54S30	
	TI	SN54S30	
DM54S32	GoldStar	GD54S32	
	Lansdale	**SL54S32**	**(3674)**
	TI	SN54S32	
DM54S373	**Lansdale**	**SL54S373**	**(3674)**
	TI	SN54S373	
DM54S387	TI	SN54S381	
DM54S40	**Lansdale**	**SL54S40**	**(3674)**
	Rochester	54S40	
	TI	SN54S40	
DM54S472	National	DM54S472A	
		DM54S472B	
DM54S472A	National	DM54S472	
		DM54S472B	
DM54S472B	National	DM54S472	
		DM54S472A	
DM54S473	National	DM54S473A	
DM54S473A	National	DM54S473	
DM54S474	National	DM54S474B	
DM54S474B	National	DM54S474	
DM54S475	National	DM54S475A	
DM54S475A	National	DM54S475	
DM54S570	National	DM54S570A	
DM54S570A	National	DM54S570	
DM54S571	National	DM54S571A	
		DM54S571B	
DM54S571A	National	DM54S571	
		DM54S571B	
DM54S571B	National	DM54S571	
		DM54S571A	
DM54S572	National	DM54S572A	
DM54S572A	National	DM54S572	
DM54S573	National	DM54S573A	
		DM54S573B	
DM54S573A	National	DM54S573	
		DM54S573B	
DM54S573B	National	DM54S573	
		DM54S573A	
DM54S64	GoldStar	GD54S64	
	Lansdale	**SL54S64**	**(3674)**
	TI	SN54S64	
DM54S64	Rochester	54S64	
DM54S86	Rochester	54S86	
DM5400	**Lansdale**	**ML5400**	**(3668)**
		SL5400	
		SL8480	
DM5400	Rochester	5400	
		5401	
DM5401	**Lansdale**	**ML5401**	**(3668)**
		SL5401	
		SL8881	
		SL8889	
DM5402	**Lansdale**	**ML5402**	**(3668)**
		SL5402	
DM5402	Rochester	5402	
DM5403	**Lansdale**	**ML5403**	**(3668)**
		SL5403	
		SL8481	
DM5404	**Lansdale**	**ML5404**	**(3668)**
		SL5404	
		SL8490	
DM5404	Rochester	5404	
DM5405	**Lansdale**	**ML5405**	**(3668)**
		SL5405	
DM5405	Rochester	5405	
DM5406	**Lansdale**	**ML5406**	**(3668)**
		SL5406	
DM5406	Rochester	5406	
		7006	
DM5407	**Lansdale**	**ML5407**	**(3668)**
		SL5407	
DM5407	Rochester	5407	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ DM5408	**Lansdale**	**ML5408**	**(3668)**
		SL5408	
♦ DM5408	Rochester	5408	
♦ DM5409	**Lansdale**	**ML5409**	**(3668)**
		SL5409	
♦ DM5409	Rochester	5409	
♦ DM5410	**Lansdale**	**ML5410**	**(3668)**
		SL5410	
		SL8470	
♦ DM5410	Rochester	5410	
♦ DM54107	**Lansdale**	**ML54107**	**(3668)**
		SL54107	
♦ DM54107	Rochester	54107	
♦ DM5411	Lansdale	SL5411	
	Rochester	5411	
♦ DM54121	**Lansdale**	**ML54121**	**(3668)**
		SL54121	
♦ DM54121	Rochester	54121	
♦ DM54123	**Lansdale**	**ML54123**	**(3668)**
	Rochester	54123	
♦ DM54126	Lansdale	SL54126	
	Rochester	54126	
♦ DM5413	**Lansdale**	**ML5413**	**(3668)**
	Rochester	5413	
♦ DM54132	**Lansdale**	**ML54132**	**(3668)**
		SL54132	
♦ DM54132	Rochester	54132	
		7132	
♦ DM5414	**Lansdale**	**ML5414**	**(3668)**
		ML7414	**(3668)**
		SL5414	
♦ DM5414	Rochester	5414	
♦ DM54141	Lansdale	ML54141	
	Rochester	54141	
♦ DM54144	Rochester	54144	
♦ DM54145	Lansdale	ML54145	
		SL54145	
♦ DM54145	Rochester	54145	
♦ DM54148	Lansdale	SL54148	
	Rochester	54148	
		7618	
♦ DM54150	**Lansdale**	**ML54150**	**(3668)**
		SL54150	
♦ DM54150	Rochester	54150	
		7218	
♦ DM54151	**Lansdale**	**ML54151**	**(3668)**
		SL54151	
♦ DM54151	Rochester	54151	
♦ DM54152	**Lansdale**	**ML54152**	**(3668)**
		SL54152	
♦ DM54152	Rochester	54152	
♦ DM54153	**Lansdale**	**ML54153**	**(3668)**
		SL54153	
♦ DM54153	Rochester	54153	
♦ DM54154	**Lansdale**	**ML54154**	**(3668)**
		SL54154	
♦ DM54154	Rochester	54154	
♦ DM54155	**Lansdale**	**ML54155**	**(3668)**
		SL54155	
♦ DM54155	Rochester	54155	
♦ DM54156	Lansdale	ML54156	
		SL54156	
♦ DM54156	Rochester	54156	
♦ DM54157	Lansdale	SL54157	
	Rochester	54157	
♦ DM5416	**Lansdale**	**ML5416**	**(3668)**
		SL5416	
♦ DM5416	Rochester	5416	
♦ DM54160	**Lansdale**	**ML54160**	**(3668)**
		SL54160	
♦ DM54160	Rochester	54160	
♦ DM54161	**Lansdale**	**ML54161**	**(3668)**
		SL54161	
♦ DM54161	Rochester	7661	
♦ DM54162	**Lansdale**	**ML54162**	**(3668)**
	Rochester	54162	
♦ DM54164	Lansdale	ML54164	
		SL54164	
♦ DM54164	Rochester	54164	
♦ DM54165	**Lansdale**	**ML54165**	**(3668)**
		SL54165	
♦ DM54165	Rochester	54165	
DM54166	Rochester	7579	
♦ DM54166	Lansdale	ML54166	
		SL54166	
♦ DM54166	Rochester	54166	
		7569	
♦ DM54167	**Lansdale**	**ML54167**	**(3668)**
	Rochester	54167	
♦ DM5417	**Lansdale**	**ML5417**	**(3668)**
		SL5417	
♦ DM5417	Rochester	5417	
♦ DM54173	Rochester	54173	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ DM54174	**Lansdale**	**ML54174**	**(3668)**
		SL54174	
♦ DM54174	Rochester	54174	
		7557	
♦ DM54175	**Lansdale**	**ML54175**	**(3668)**
		SL54175	
♦ DM54175	Rochester	54175	
		7558	
♦ DM54176	**Lansdale**	**ML54176**	**(3668)**
	Rochester	54176	
♦ DM54177	Rochester	54177	
♦ DM54178	Lansdale	ML54178	
	Rochester	54178	
♦ DM54179	Lansdale	ML54179	
	Rochester	54179	
♦ DM54180	**Lansdale**	**ML54180**	**(3668)**
		SL54180	
♦ DM54180	Rochester	54180	
♦ DM54181	**Lansdale**	**ML54181**	**(3668)**
		SL54181	
♦ DM54181	Rochester	54181	
		7181	
		93L41	
♦ DM54182	**Lansdale**	**ML54182**	**(3668)**
		SL54182	
♦ DM54182	Rochester	54182	
		9342	
♦ DM54185	Rochester	54185	
♦ DM54190	**Lansdale**	**ML54190**	**(3668)**
		SL54190	
♦ DM54190	Rochester	54190	
♦ DM54191	**Lansdale**	**ML54191**	**(3668)**
		SL54191	
♦ DM54191	Rochester	7562	
♦ DM54192	**Lansdale**	**ML54192**	**(3668)**
	Rochester	54192	
♦ DM54193	**Lansdale**	**ML54193**	**(3668)**
		SL54193	
♦ DM54193	Rochester	54193	
		7563	
DM54194	Lansdale	SL54194	
♦ DM54194	**Lansdale**	**ML54194**	**(3668)**
	Rochester	54194	
		7543	
♦ DM54195	**Lansdale**	**ML54195**	**(3668)**
		SL54195	
♦ DM54195	Rochester	54195	
♦ DM54196	**Lansdale**	**ML54196**	**(3668)**
	Rochester	54196	
♦ DM54197	**Lansdale**	**ML54197**	**(3668)**
	Rochester	54197	
		7683	
♦ DM54198	Lansdale	ML54198	
		SL54198	
♦ DM54198	Rochester	54198	
♦ DM54199	Lansdale	ML54199	
		SL54199	
♦ DM54199	Rochester	54199	
♦ DM5420	**Lansdale**	**ML5420**	**(3668)**
		SL5420	
♦ DM5420	Rochester	5420	
♦ DM5423	**Lansdale**	**ML5423**	**(3668)**
	Rochester	5423	
♦ DM5425	**Lansdale**	**ML5425**	**(3668)**
		SL5425	
		SL8815	
♦ DM54251	Rochester	54251	
♦ DM5426	**Lansdale**	**ML5426**	**(3668)**
		SL5426	
♦ DM5426	Rochester	5426	
♦ DM5427	**Lansdale**	**ML5427**	**(3668)**
		SL5427	
		SL8875	
♦ DM5427	Rochester	5427	
♦ DM5430	**Lansdale**	**ML5430**	**(3668)**
		SL5430	
		SL8808	
♦ DM5430	Rochester	5430	
♦ DM5432	Lansdale	SL5432	
	Rochester	5432	
		7032	
♦ DM54368	Rochester	54368	
♦ DM5437	**Lansdale**	**ML5437**	**(3668)**
		SL5437	
♦ DM5437	Rochester	5437	
		7037	
♦ DM5438	**Lansdale**	**ML5438**	**(3668)**
		SL5438	
♦ DM5438	Rochester	5438	
♦ DM5440	**Lansdale**	**ML5440**	**(3668)**
		SL5440	
		SL8455	
		SL8859	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ DM5440	Rochester	5440	
♦ DM5441	Lansdale	ML5441A	
♦ DM5442	**Lansdale**	**ML5442**	**(3668)**
		SL5442	
♦ DM5442	Rochester	5442	
♦ DM5445	Lansdale	ML5445	
		SL5445	
♦ DM5448	Lansdale	ML5448	
		SL5448	
♦ DM5448	Rochester	5448	
♦ DM5450	**Lansdale**	**ML5450**	**(3668)**
		SL5450	
♦ DM5450	Rochester	5450	
♦ DM5451	**Lansdale**	**ML5451**	**(3668)**
		SL5451	
		SL8840	
♦ DM5453	**Lansdale**	**ML5453**	**(3668)**
		SL5453	
♦ DM5453	Rochester	5453	
♦ DM5454	**Lansdale**	**ML5454**	**(3668)**
		SL5454	
♦ DM5454	Rochester	5454	
♦ DM5460	Lansdale	ML5460	
		SL5460	
		SL8806	
♦ DM5460	Rochester	5460	
♦ DM5470	**Lansdale**	**ML5470**	**(3668)**
		SL5470	
♦ DM5470	Rochester	5470	
♦ DM5472	**Lansdale**	**ML5472**	**(3668)**
		SL5472	
♦ DM5472	Rochester	5472	
♦ DM5473	**Lansdale**	**ML5473**	**(3668)**
		SL5473	
♦ DM5474	**Lansdale**	**ML5474**	**(3668)**
		SL5474	
		SL8828	
♦ DM5474	Rochester	5474	
		7510	
♦ DM5475	**Lansdale**	**ML5475**	**(3668)**
		SL5475	
♦ DM5475	Rochester	5475	
		7550	
♦ DM5476	**Lansdale**	**ML5476**	**(3668)**
		SL5476	
♦ DM5476	Rochester	5476	
♦ DM5480	**Lansdale**	**ML5480**	**(3668)**
♦ DM5483	**Lansdale**	**ML5483**	**(3668)**
♦ DM5485	**Lansdale**	**ML5485**	**(3668)**
		SL5485	
♦ DM5485	Rochester	5485	
		7201	
♦ DM5486	**Lansdale**	**ML5486**	**(3668)**
		SL5486	
♦ DM5490	Lansdale	ML5490	
		SL5490	
♦ DM5490	Rochester	5490	
♦ DM5491	**Lansdale**	**ML5491A**	**(3668)**
	Rochester	5491	
♦ DM5492	Lansdale	ML5492	
		SL5492	
♦ DM5492	Rochester	5492	
♦ DM5493	Lansdale	ML5493	
		SL5493	
♦ DM5493	Rochester	5493	
♦ DM5495	Lansdale	ML5495	
		SL5495	
♦ DM5495	Rochester	5495	
♦ DM5496	**Lansdale**	**ML5496**	**(3668)**
		SL5496	
♦ DM5496	Rochester	5496	
♦ DM7006	Rochester	7006	
♦ DM7032	Rochester	7032	
♦ DM7092	Rochester	7092	
♦ DM7096	Lansdale	SL8T96	
♦ DM7130	Rochester	7130	
♦ DM7131	Rochester	DM7131	
		7131	
♦ DM7132	Rochester	7132	
♦ DM7136	Rochester	7136	
♦ DM7160	Rochester	7160	
♦ DM7181	Rochester	54181	
		7181	
♦ DM7200	Lansdale	SL8269	
♦ DM7201	Rochester	7201	
♦ DM7218	Rochester	7218	
♦ DM7280	Lansdale	ML7280	
♦ DM7288	Lansdale	ML7288	
♦ DM7290	Lansdale	ML7290	
		SL7291	
DM74ALS00	Philips	74ALS00A	
	TI	SN74ALS00A	
DM74ALS01	TI	SN74ALS01	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
DM74ALS02	Mitsubishi	M74ALS02	
	Philips	74ALS02	
	TI	SN74ALS02	
DM74ALS03	Mitsubishi	M74ALS03B	
	TI	SN74ALS03B	
DM74ALS04	Mitsubishi	M74ALS04B	
	Philips	74ALS04B	
	TI	SN74ALS04B	
DM74ALS05	Mitsubishi	M74ALS05A	
	TI	SN74ALS05A	
DM74ALS08	Mitsubishi	M74ALS08	
	Philips	74ALS08	
	TI	SN74ALS08	
DM74ALS09	Mitsubishi	M74ALS09	
	TI	SN74ALS09A	
DM74ALS10	Mitsubishi	M74ALS10A	
	Philips	74ALS10A	
	TI	SN74ALS10A	
DM74ALS1000			
	Mitsubishi	M74ALS1000A	
	TI	SN74ALS1000A	
DM74ALS1002			
	Mitsubishi	M74ALS1002A	
	TI	SN74ALS1002A	
DM74ALS1003			
	Mitsubishi	M74ALS1003A	
	TI	SN74ALS1003A	
DM74ALS1004			
	Mitsubishi	M74ALS1004	
	TI	SN74ALS1004	
DM74ALS1005			
	Mitsubishi	M74ALS1005	
	TI	SN74ALS1005	
DM74ALS1008			
	Mitsubishi	M74ALS1008A	
	TI	SN74ALS1008A	
DM74ALS1010			
	Mitsubishi	M74ALS1010A	
	TI	SN74ALS1010A	
DM74ALS1011			
	Mitsubishi	M74ALS1011A	
	TI	SN74ALS1011A	
DM74ALS1020			
	Mitsubishi	M74ALS1020A	
	TI	SN74ALS1020A	
DM74ALS1032			
	Mitsubishi	M74ALS1032A	
	TI	SN74ALS1032A	
DM74ALS1034			
	Mitsubishi	M74ALS1034	
	TI	SN74ALS1034	
DM74ALS1035			
	Mitsubishi	M74ALS1035	
	TI	SN74ALS1035	
DM74ALS109	Mitsubishi	M74ALS109A	
	Philips	74ALS109A	
	TI	SN74ALS109	
DM74ALS11	Mitsubishi	M74ALS11A	
	Philips	74ALS11A	
	TI	SN74ALS11A	
DM74ALS12	Mitsubishi	M74ALS12A	
	TI	SN74ALS12A	
DM74ALS1240			
	Mitsubishi	M74ALS1240A	
	TI	SN74ALS1240	
		SN74ALS1240-1	
DM74ALS1241			
	Mitsubishi	M74ALS1241A	
DM74ALS1242			
	Mitsubishi	M74ALS1242A	
	TI	SN74ALS1242	
		SN74ALS1242-1	
DM74ALS1243			
	Mitsubishi	M74ALS1243A	
DM74ALS1244			
	Mitsubishi	M74ALS1244A	
	TI	SN74ALS1244A	
		SN74ALS1244A-1	
DM74ALS125	National	DM74ALS13	
DM74ALS13	National	DM74ALS125	
DM74ALS131	Mitsubishi	M74ALS131	
	TI	SN74ALS131	
DM74ALS132	Mitsubishi	M74ALS133	
	National	DM74ALS133	
	TI	SN74ALS133	
DM74ALS133	Mitsubishi	M74ALS133	
	National	DM74ALS132	
	TI	SN74ALS133	
DM74ALS136	TI	SN74ALS136	
DM74ALS137	Mitsubishi	M74ALS137	
	TI	SN74ALS137	
DM74ALS138	Mitsubishi	M74ALS138	
	Philips	74ALS138	
	TI	SN74ALS138	
DM74ALS14	Mitsubishi	M74ALS15A	
	National	DM74ALS15	
	TI	SN74ALS15A	
DM74ALS15	Mitsubishi	M74ALS15A	
	National	DM74ALS14	
	TI	SN74ALS15A	
DM74ALS151	Mitsubishi	M74ALS151	
	Philips	74ALS151	
	TI	SN74ALS151	
DM74ALS153	Mitsubishi	M74ALS153	
	Philips	74ALS153	
	TI	SN74ALS153	
DM74ALS157	Mitsubishi	M74ALS157	
	Philips	74ALS157	
	TI	SN74ALS156	
		SN74ALS157	
DM74ALS158	Mitsubishi	M74ALS158	
	Philips	74ALS158	
	TI	SN74ALS158	
DM74ALS160	Mitsubishi	M74ALS160B	
	TI	SN74ALS160B	
DM74ALS161	Mitsubishi	M74ALS161B	
	Philips	74ALS161B	
	TI	SN74ALS161B	
DM74ALS162	Mitsubishi	M74ALS162B	
	TI	SN74ALS162B	
DM74ALS163	Mitsubishi	M74ALS163B	
	Philips	74ALS163B	
	TI	SN74ALS163B	
DM74ALS165	TI	SN74ALS165	
DM74ALS166	TI	SN74ALS166	
DM74ALS168	Mitsubishi	M74ALS168B	
	TI	SN74ALS168B	
DM74ALS169	Mitsubishi	M74ALS169B	
	TI	SN74ALS169B	
DM74ALS174	Mitsubishi	M74ALS174	
	Philips	74ALS174	
	TI	SN74ALS174	
DM74ALS175	Mitsubishi	M74ALS175	
	Philips	74ALS175	
	TI	SN74ALS175	
DM74ALS20	Mitsubishi	M74ALS20A	
	Philips	74ALS20A	
	TI	SN74ALS20A	
DM74ALS21	Mitsubishi	M74ALS21A	
	TI	SN74ALS21A	
DM74ALS22	Mitsubishi	M74ALS22B	
	TI	SN74ALS22B	
DM74ALS240	Harris	CD74FCT240	
	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A	
		74ALS240A-1	
	Rochester	74ALS240	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
DM74ALS240A			
	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A-1	
	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
DM74ALS240A-1			
	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
DM74ALS241	Harris	CD74FCT241	
	Mitsubishi	M74ALS241A	
		M74ALS241A-1	
	National	DM74ALS241A	
	Philips	74ALS241A-1	
	Rochester	74ALS241	
	TI	SN74ALS241A	
		SN74ALS241A-1	
DM74ALS241A			
	Mitsubishi	M74ALS241A	
		M74ALS241A-1	
DM74ALS241A (Cont'd)			
	National	DM74ALS241	
	Philips	74ALS241A-1	
	TI	SN74ALS241A	
		SN74ALS241A-1	
DM74ALS242	Mitsubishi	M74ALS242A	
	TI	SN74ALS242B	
		SN74ALS242B-1	
DM74ALS243	Mitsubishi	M74ALS243A	
	TI	SN74ALS243A	
		SN74ALS243A-1	
DM74ALS244	Harris	CD74FCT244	
	Mitsubishi	M74ALS244A	
		M74ALS244A-1	
	Philips	74ALS244A	
		74ALS244A-1	
	Rochester	74ALS244	
	TI	SN74ALS244A	
		SN74ALS244A-1	
DM74ALS245	Harris	CD74FCT245	
	Mitsubishi	M74ALS245A	
		M74ALS245A-1	
	Philips	74ALS245A	
		74ALS245A-1	
	Rochester	74ALS245	
	TI	SN74ALS2442	
		SN74ALS245A	
		SN74ALS245A-1	
DM74ALS251	Mitsubishi	M74ALS251	
	Philips	74ALS251	
	Rochester	74ALS251	
	TI	SN74ALS251	
DM74ALS253	Mitsubishi	M74ALS253	
	Philips	74ALS253	
	Rochester	74ALS253A	
	TI	SN74ALS253	
DM74ALS257	Mitsubishi	M74ALS257	
	Philips	74ALS257	
	Rochester	74ALS257	
	TI	SN74ALS257	
DM74ALS258	Mitsubishi	M74ALS258	
	Philips	74ALS258	
	Rochester	74ALS258	
	TI	SN74ALS258	
DM74ALS27	Philips	74ALS27	
	TI	SN74ALS259	
		SN74ALS27	
DM74ALS273	Harris	CD74FCT273	
	Mitsubishi	M74ALS273	
	Philips	74ALS273	
	TI	SN74ALS273	
DM74ALS28	Mitsubishi	M74ALS28A	
	TI	SN74ALS28A	
DM74ALS29863			
	TI	SN74ALS29863	
DM74ALS30	Mitsubishi	M74ALS30A	
	Philips	74ALS30A	
	Rochester	74ALS30	
	TI	SN74ALS30A	
DM74ALS32	Philips	74ALS32	
	Rochester	74ALS32	
	TI	SN74ALS32	
DM74ALS33	Mitsubishi	M74ALS33A	
	TI	SN74ALS33A	
DM74ALS352	Mitsubishi	M74ALS352	
	TI	SN74ALS352	
DM74ALS353	Mitsubishi	M74ALS353	
	TI	SN74ALS353	
DM74ALS37	Mitsubishi	M74ALS37A	
	TI	SN74ALS37A	
DM74ALS373	Harris	CD74FCT373	
	Mitsubishi	M74ALS373	
	Philips	74ALS373	
	Rochester	74ALS373	
	TI	SN74ALS373	
DM74ALS374	Harris	CD74FCT374	
	Mitsubishi	M74ALS374	
	National	DM74ALS374A	
	Philips	74ALS374	
	TI	SN74ALS374	
		SN74ALS374A	
DM74ALS374A			
	Mitsubishi	M74ALS374	
	National	DM74ALS374	
	Philips	74ALS374	
	TI	SN74ALS374	
		SN74ALS374A	
DM74ALS38	Mitsubishi	M74ALS38A	
	Philips	74ALS38A	
	Rochester	74ALS38	
	TI	SN74ALS38A	
DM74ALS40	Mitsubishi	M74ALS40A	
	TI	SN74ALS40A	
DM74ALS465	Mitsubishi	M74ALS465A	
	TI	SN74ALS465A	
DM74ALS466	Mitsubishi	M74ALS466A	
	TI	SN74ALS466A	
DM74ALS467	Mitsubishi	M74ALS467A	
	TI	SN74ALS467A	
DM74ALS468	Mitsubishi	M74ALS468A	
	TI	SN74ALS468A	
DM74ALS518	TI	SN74ALS518	
DM74ALS519	TI	SN74ALS519	
DM74ALS520	TI	SN74ALS520	
DM74ALS521	Rochester	74ALS521	
	TI	SN74ALS521	
DM74ALS522	TI	SN74ALS522	
DM74ALS5245			
	National	DM74ALS5245-1	
DM74ALS5245-1			
	National	DM74ALS5245	
DM74ALS533	Harris	CD74FCT533	
	Mitsubishi	M74ALS533	
	TI	SN74ALS527	
		SN74ALS533	
DM74ALS534	Harris	CD74FCT534	
	Mitsubishi	M74ALS534	
	Rochester	74ALS534	
	TI	SN74ALS534	
		SN74ALS534A	
DM74ALS563	Harris	CD74FCT563	
	Mitsubishi	M74ALS563A	
	Philips	74ALS563A	
	TI	SN74ALS563	
		SN74ALS563A	
DM74ALS564	Harris	CD74FCT564	
	Mitsubishi	M74ALS564A	
	Philips	74ALS564A	
	TI	SN74ALS564	
		SN74ALS564A	
DM74ALS573	Harris	CD74FCT573	
	Mitsubishi	M74ALS573B	
	Philips	74ALS573B	
	Rochester	74ALS573	
	TI	SN74ALS573	
		SN74ALS573B	
DM74ALS574	Harris	CD74FCT574	
	Mitsubishi	M74ALS574A	
	Philips	74ALS574A	
	Rochester	74ALS574	
	TI	SN74ALS574	
		SN74ALS574A	
DM74ALS576	Mitsubishi	M74ALS576A	
	TI	SN74ALS576	
		SN74ALS576A	
DM74ALS580	Mitsubishi	M74ALS580A	
	TI	SN74ALS580	
		SN74ALS580A	
DM74ALS640	Mitsubishi	M74ALS640A	
		M74ALS640A-1	
	TI	SN74ALS640A	
		SN74ALS640A-1	
DM74ALS645	Mitsubishi	M74ALS645A	
		M74ALS645A-1	
	Philips	74ALS645A	
		74ALS645A-1	
	TI	SN74ALS645A	
		SN74ALS645A-1	
DM74ALS648	Mitsubishi	M74ALS648	
	National	DM74ALS648-1	
	Philips	74ALS648	
		74ALS648-1	
	TI	SN74ALS648	
		SN74ALS648-1	
DM74ALS648-1			
	Mitsubishi	M74ALS648	
	National	DM74ALS648	
	Philips	74ALS648	
		74ALS648-1	
	TI	SN74ALS648	
		SN74ALS648-1	
DM74ALS651	Harris	CD74FCT651	
	Mitsubishi	M74ALS651	
	National	DM74ALS651-1	
	Philips	74ALS651	
		74ALS651-1	
	TI	SN74ALS651	
		SN74ALS651-1	
DM74ALS651-1			
	Mitsubishi	M74ALS651	
	National	DM74ALS651	
	Philips	74ALS651	
		74ALS651-1	
	TI	SN74ALS651	
		SN74ALS651-1	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM74ALS689	TI	SN74ALS688	
		SN74ALS689	
DM74ALS74	Mitsubishi	M74ALS74A	
	Philips	74ALS74A	
	Rochester	74ALS74	
	TI	SN74ALS74A	
DM74ALS804	Rochester	74ALS804	
	TI	SN74ALS8003A	
		SN74ALS804A	
DM74ALS805	TI	SN74ALS805A	
DM74ALS808	TI	SN74ALS808A	
DM74ALS810	TI	SN74ALS810	
DM74ALS811	TI	SN74ALS811	
DM74ALS832	TI	SN74ALS819	
		SN74ALS832A	
DM74ALS86	Philips	74ALS86	
	TI	SN74ALS857	
		SN74ALS86	
DM74ALS873	Mitsubishi	M74ALS873B	
	TI	SN74ALS873B	
DM74ALS874	Mitsubishi	M74ALS874B	
	TI	SN74ALS874B	
DM74ALS876	Mitsubishi	M74ALS876A	
	TI	SN74ALS876A	
DM74ALS880	Mitsubishi	M74ALS880A	
	TI	SN74ALS880A	
DM74AS00	TI	SN74AS00	
DM74AS02	TI	SN74AS02	
DM74AS04	TI	SN74AS04	
DM74AS08	TI	SN74AS08	
DM74AS10	TI	SN74AS10	
DM74AS1000	TI	SN74AS1000A	
DM74AS1004	TI	SN74AS1004A	
DM74AS1008	TI	SN74AS1008A	
DM74AS1032	TI	SN74AS1032A	
DM74AS1034	TI	SN74AS1034A	
DM74AS1036	TI	SN74AS1036A	
DM74AS109	TI	SN74AS109	
DM74AS11	TI	SN74AS11	
DM74AS158	TI	SN74AS158	
DM74AS160	TI	SN74AS160	
DM74AS161	TI	SN74AS161	
DM74AS162	TI	SN74AS162	
DM74AS163	TI	SN74AS163	
DM74AS168	TI	SN74AS168	
DM74AS169	TI	SN74AS169	
DM74AS174	TI	SN74AS174	
DM74AS175	TI	SN74AS175A	
DM74AS1804	TI	SN74AS1804	
DM74AS1805	TI	SN74AS1805	
DM74AS1808	TI	SN74AS1808	
DM74AS181B	TI	SN74AS181B	
DM74AS182	TI	SN74AS182	
DM74AS1832	TI	SN74AS1832	
DM74AS20	TI	SN74AS20	
DM74AS21	TI	SN74AS21	
DM74AS230	TI	SN74AS230	
DM74AS231	TI	SN74AS231	
DM74AS240	Harris	CD74FCT240	
	TI	SN74AS240	
DM74AS241	Harris	CD74FCT241	
	TI	SN74AS241	
DM74AS242	TI	SN74AS242	
DM74AS243	TI	SN74AS243	
DM74AS244	Harris	CD74FCT244	
	TI	SN74AS244	
DM74AS245	Harris	CD74FCT245	
	TI	SN74AS245	
DM74AS257	TI	SN74AS253	
		SN74AS257	
DM74AS258	TI	SN74AS258	
DM74AS2620	TI	SN74AS2620	
DM74AS264	TI	SN74AS2623	
		SN74AS264	
DM74AS27	TI	SN74AS27	
DM74AS280	TI	SN74AS280	
DM74AS282	TI	SN74AS282	
DM74AS286	TI	SN74AS286	
DM74AS30	TI	SN74AS30	
DM74AS32	TI	SN74AS3074	
		SN74AS32	
DM74AS34	TI	SN74AS3374	
		SN74AS34	
DM74AS373	Harris	CD74FCT373	
	TI	SN74AS373	
DM74AS374	Harris	CD74FCT374	
	TI	SN74AS374	
DM74AS533	Harris	CD74FCT533	
	TI	SN74AS533	
DM74AS534	Harris	CD74FCT534	
	TI	SN74AS534	
DM74AS573	Harris	CD74FCT573	
	TI	SN74AS573	
		SN74AS573A	
DM74AS574	Harris	CD74FCT574	
	TI	SN74AS574	
DM74AS575	TI	SN74AS575	
DM74AS576	TI	SN74AS576	
DM74AS577	TI	SN74AS577	
DM74AS580	TI	SN74AS580	
DM74AS620	TI	SN74AS620	
DM74AS640	TI	SN74AS639	
		SN74AS640	
DM74AS645	TI	SN74AS645	
DM74AS646	Harris	CD74FCT646	
	TI	SN74AS646	
DM74AS651	Harris	CD74FCT651	
	TI	SN74AS648	
		SN74AS651	
DM74AS652	Harris	CD74FCT652	
	TI	SN74AS652	
DM74AS74	TI	SN74AS74	
DM74AS804A	TI	SN74AS763	
		SN74AS804B	
DM74AS805A	TI	SN74AS805B	
DM74AS808A	TI	SN74AS808	
		SN74AS808B	
DM74AS810	National	DM74AS811	
DM74AS811	National	DM74AS810	
DM74AS832A	TI	SN74AS832B	
DM74AS86	TI	SN74AS857	
		SN74AS86	
DM74AS873	TI	SN74AS871	
		SN74AS873	
DM74AS874	TI	SN74AS874	
DM74AS876	TI	SN74AS876	
DM74AS878	TI	SN74AS877	
		SN74AS878	
DM74AS879	TI	SN74AS879	
DM74AS880	TI	SN74AS880	
DM74AS881B	TI	SN74AS881A	
DM74F821	Philips	N74F821	
DM74F823	Philips	N74F823	
DM74F825	Philips	N74F825	
DM74F827	Philips	N74F827	
DM74F828	Philips	N74F828	
DM74F841	Philips	N74F841	
DM74F843	Philips	N74F843	
DM74F845	Philips	N74F845	
♦ DM74H00	**Lansdale**	**ML74H00**	**(3669)**
		SL74H00	
♦ DM74H00	Rochester	74H00	
♦ DM74H01	**Lansdale**	**ML74H01**	**(3669)**
		SL74H01	
♦ DM74H01	Rochester	74H01	
♦ DM74H04	**Lansdale**	**ML74H04**	**(3669)**
	Rochester	74H04	
♦ DM74H05	**Lansdale**	**ML74H05**	**(3669)**
	Rochester	74H05	
♦ DM74H08	**Lansdale**	**ML74H08**	**(3669)**
		SL74H08	
♦ DM74H08	Rochester	74H08	
♦ DM74H10	**Lansdale**	**ML74H10**	**(3669)**
		SL74H10	
♦ DM74H10	Rochester	74H10	
♦ DM74H101	**Lansdale**	**ML74H101**	**(3669)**
		SL74H101	
♦ DM74H101	Rochester	74H101	
♦ DM74H102	Lansdale	ML74H102	
		SL74H102	
♦ DM74H102	Rochester	74H102	
♦ DM74H103	**Lansdale**	**ML74H103**	**(3669)**
		SL74H103	
♦ DM74H103	Rochester	74H103	
♦ DM74H106	Lansdale	SL74H106	
	Rochester	74H106	
♦ DM74H108	**Lansdale**	**ML74H108**	**(3669)**
		SL74H108	
♦ DM74H108	Rochester	74H108	
♦ DM74H11	**Lansdale**	**ML74H11**	**(3669)**
		SL74H11	
♦ DM74H11	Rochester	RC3006	
		74H11	
DM74H198	Rochester	74H198	
♦ DM74H20	**Lansdale**	**ML74H20**	**(3669)**
		SL74H20	
		SL8416	
♦ DM74H20	Rochester	74H20	
♦ DM74H21	**Lansdale**	**ML74H21**	**(3669)**
		SL74H21	
♦ DM74H21	Rochester	74H21	
♦ DM74H22	**Lansdale**	**ML74H22**	**(3669)**
		SL74H22	
♦ DM74H22	Rochester	74H22	
♦ DM74H30	**Lansdale**	**ML74H30**	**(3669)**
		SL74H30	
♦ DM74H30	Rochester	74H30	
♦ DM74H40	**Lansdale**	**ML74H40**	**(3669)**
		SL74H40	
♦ DM74H40	Rochester	74H40	
♦ DM74H50	**Lansdale**	**ML74H50**	**(3669)**
	Rochester	74H50	
♦ DM74H51	**Lansdale**	**ML74H51**	**(3669)**
	Rochester	74H51	
♦ DM74H52	**Lansdale**	**ML74H52**	**(3669)**
		SL74H52	
♦ DM74H52	Rochester	74H52	
♦ DM74H53	**Lansdale**	**ML74H53**	**(3669)**
		SL74H53	
♦ DM74H53	Rochester	74H53	
♦ DM74H54	**Lansdale**	**ML74H54**	**(3669)**
		SL74H54	
♦ DM74H54	Rochester	74H54	
♦ DM74H55	**Lansdale**	**ML74H55**	**(3669)**
		SL74H55	
♦ DM74H55	Rochester	74H55	
♦ DM74H60	Lansdale	ML74H60	
		SL74H60	
♦ DM74H60	Rochester	74H60	
♦ DM74H61	**Lansdale**	**ML74H61**	**(3669)**
		SL74H61	
♦ DM74H61	Rochester	RC3019	
		74H61	
♦ DM74H62	**Lansdale**	**ML74H62**	**(3669)**
		SL74H62	
♦ DM74H62	Rochester	74H62	
♦ DM74H71	Lansdale	ML74H71	
		SL74H71	
♦ DM74H71	Rochester	RC3054	
		74H71	
♦ DM74H72	**Lansdale**	**ML74H72**	**(3669)**
		SL74H72	
♦ DM74H72	Rochester	RC3055	
		74H72	
♦ DM74H73	**Lansdale**	**ML74H73**	**(3669)**
		SL74H73	
♦ DM74H73	Rochester	RC3063	
		74H73	
♦ DM74H74	**Lansdale**	**ML74H74**	**(3669)**
		SL74H74	
♦ DM74H74	Rochester	74H74	
♦ DM74H76	Lansdale	SL74H76	
	Rochester	74H76	
♦ DM74H78	Rochester	74H78	
DM74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	**(3674)**
	Motorola	SN74LS00	
	National	74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson		
		T74LS00	
		74LS00	
	TI	SN74LS00	
♦ DM74LS01	**Lansdale**	**SL74LS01**	**(3674)**
	Motorola	SN74LS01	
	SGS-Thomson		
		T74LS01	
		74LS01	
♦ DM74LS01	TI	SN74LS01	
DM74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	**(3674)**
	Motorola	SN74LS02	
	National	74LS02	
	SGS-Thomson		
		T74LS02	
		74LS02	
	TI	SN74LS02	
DM74LS03	Motorola	SN74LS03	
	National	74LS03	
	Rochester	74LS03	
	SGS-Thomson		
		T74LS03A	
		74LS03	
	TI	SN74LS03	
DM74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	**(3674)**
	Motorola	SN74LS04	
	National	74LS04	
	Rochester	74LS04	
	SGS-Thomson		
		T74LS04	
		74LS04	
	TI	SN74LS04	
DM74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	**(3674)**
	Motorola	SN74LS05	
	National	74LS05	
	Rochester	74LS05	
	SGS-Thomson		
		T74LS05	
		74LS05	
	TI	SN74LS05	
DM74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	**(3674)**
	Motorola	SN74LS08	
	National	74LS08	
	Rochester	74LS08	
	SGS-Thomson		
		T74LS08	
		74LS08	
	TI	SN74LS08	
DM74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	**(3674)**
	Motorola	SN74LS09	
	National	74LS09	
	Rochester	74LS09	
	SGS-Thomson		
		T74LS09	
		74LS09	
	TI	SN74LS09	
DM74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	**(3674)**
	Motorola	SN74LS10	
	National	74LS10	
	Rochester	74LS10	
	SGS-Thomson		
		T74LS10	
		74LS10	
	TI	SN74LS10	
DM74LS107A	GoldStar	GD74LS107A	
	Lansdale	**SL74LS107**	**(3674)**
	Motorola	SN74LS107A	
	TI	SN74LS107A	
DM74LS109	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	**(3674)**
	Motorola	SN74LS109A	
	National	74LS109	
	SGS-Thomson		
		T74LS109A	
	TI	SN74LS109A	
DM74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	**(3674)**
	Motorola	SN74LS11	
	National	74LS11	
	Rochester	74LS11	
	SGS-Thomson		
		T74LS11	
		74LS11	
	TI	SN74LS11	
DM74LS112	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	**(3674)**
	Motorola	SN74LS112A	
	National	74LS112	
	Rochester	74LS112	
	SGS-Thomson		
		T74LS112A	
	TI	SN74LS112A	
DM74LS12	Motorola	SN74LS12	
	National	74LS12	
	Rochester	74LS12	
	SGS-Thomson		
		T74LS12	
		74LS12	
	TI	SN74LS12	
DM74LS122	Motorola	SN74LS122	
	TI	SN74LS122	
DM74LS123	GoldStar	GD74LS123	
	Motorola	SN74LS123	
	TI	SN74LS123	
DM74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
	Motorola	SN74LS125A	
	National	74LS125	
	SGS-Thomson		
		T74LS125A	
		74LS125A	
	TI	SN74LS125A	
DM74LS126	**Lansdale**	**SL74LS126A**	**(3674)**
	Motorola	SN74LS126A	
	National	74LS126	
	SGS-Thomson		
		T74LS126A	
		74LS126	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM74LS126			(Cont'd)
	TI	SN74LS126A	
DM74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	**(3674)**
	Motorola	SN74LS132	
	National	74LS132	
	Rochester	74LS132	
	SGS-Thomson		
		T74LS132	
		74LS132	
	TI	SN74LS132	
DM74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	**(3674)**
	Motorola	SN74LS138	
	National	74LS138	
	Rochester	74LS138	
	SGS-Thomson		
		T74LS138	
		74LS138	
	TI	SN74LS138	
DM74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	**(3674)**
	Motorola	SN74LS139	
	National	74LS139	
	SGS-Thomson		
		T74LS139	
		74LS139	
	TI	SN74LS139A	
DM74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	**(3674)**
	Motorola	SN74LS14	
	National	74LS14	
	SGS-Thomson		
		T74LS14	
		74LS14	
	TI	SN74LS14	
DM74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	**(3674)**
	Motorola	SN74LS151	
	National	74LS151	
	SGS-Thomson		
		T74LS151	
		74LS151	
	TI	SN74LS151	
DM74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	**(3674)**
	Motorola	SN74LS153	
	National	74LS153	
	Rochester	74LS153	
	SGS-Thomson		
		T74LS153	
		74LS153	
	TI	SN74LS153	
DM74LS154	GoldStar	GD74LS154	
DM74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	**(3674)**
	Motorola	SN74LS155	
	National	74LS155	
	SGS-Thomson		
		T74LS155	
		74LS155	
	TI	SN74LS155A	
DM74LS156	**Lansdale**	**SL74LS156**	**(3674)**
	Motorola	SN74LS156	
	National	74LS156	
	SGS-Thomson		
		T74LS156	
		74LS156	
	TI	SN74LS156	
DM74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	**(3674)**
	Motorola	SN74LS157	
	National	74LS157	
	SGS-Thomson		
		T74LS157	
		74LS157	
	TI	SN74LS157	
DM74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	74LS158	
	Rochester	74LS158	
	SGS-Thomson		
		T74LS158	
		74LS158	
	TI	SN74LS158	
DM74LS161A	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	**(3674)**
	Motorola	SN74LS161A	
			(Continued)
DM74LS161A			(Cont'd)
	National	74LS161	
	SGS-Thomson		
		T74LS161A	
	TI	SN74LS161A	
DM74LS163A	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	**(3674)**
	Motorola	SN74LS163A	
	National	74LS163	
	SGS-Thomson		
		T74LS163A	
	TI	SN74LS163A	
DM74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	**(3674)**
	Motorola	SN74LS164	
	National	74LS164	
	Rochester	74LS164	
	SGS-Thomson		
		T74LS164	
		74LS164	
	TI	SN74LS164	
DM74LS166	GoldStar	GD74LS166	
	Motorola	SN74LS166	
	SGS-Thomson		
		T74LS166	
		74LS166	
	TI	SN74LS166A	
DM74LS169A	**Lansdale**	**SL74LS169A**	**(3674)**
	Motorola	SN74LS169	
	National	74LS169	
	Rochester	74LS169	
	SGS-Thomson		
		T74LS169	
		74LS169	
	TI	SN74LS169B	
DM74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	**(3674)**
	Motorola	SN74LS174	
	National	74LS174	
	Rochester	74LS174	
	SGS-Thomson		
		T74LS174	
		74LS174	
	TI	SN74LS174	
DM74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	**(3674)**
	Motorola	SN74LS175	
	National	74LS175	
	Rochester	74LS175	
	SGS-Thomson		
		T74LS175	
		74LS175	
	TI	SN74LS175	
DM74LS190	Motorola	SN74LS190	
	National	74LS190	
	SGS-Thomson		
		T74LS190	
		74LS190	
	TI	SN74LS190	
DM74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	**(3674)**
	Motorola	SN74LS191	
	National	74LS191	
	SGS-Thomson		
		T74LS191	
		74LS191	
	TI	SN74LS191	
DM74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	**(3674)**
	Motorola	SN74LS193	
	National	74LS193	
	SGS-Thomson		
		T74LS193	
		74LS193	
	TI	SN74LS193	
DM74LS194A	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	**(3674)**
	Motorola	SN74LS194A	
	Rochester	74LS194	
	SGS-Thomson		
		T74LS194A	
		74LS194	
	TI	SN74LS194A	
DM74LS195A	GoldStar	GD74LS195A	
	Motorola	SN74LS195A	
	SGS-Thomson		
		T74LS195A	
		74LS195	
	TI	SN74LS195A	
DM74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
			(Continued)
DM74LS20			(Cont'd)
	Motorola	SN74LS20	
	National	74LS20	
	Rochester	74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
	TI	SN74LS20	
DM74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	74LS21	
	Rochester	74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
	TI	SN74LS21	
DM74LS221	GoldStar	GD74LS221	
	Motorola	SN74LS221	
	TI	SN74LS221	
DM74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	**(3674)**
	Motorola	SN74LS240	
	National	74LS240	
	SGS-Thomson		
		T74LS240	
		74LS240	
	TI	SN74LS240	
DM74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	**(3674)**
	Motorola	SN74LS241	
	National	74LS241	
	SGS-Thomson		
		T74LS241	
		74LS241	
	TI	SN74LS241	
DM74LS243	GoldStar	GD74LS243	
	Lansdale	**SL74LS243**	**(3674)**
	Motorola	SN74LS243	
	TI	SN74LS243	
DM74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	**(3674)**
	Motorola	SN74LS244	
	National	74LS244	
	SGS-Thomson		
		T74LS244	
		74LS244	
	TI	SN74LS244	
DM74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	74LS245	
	Rochester	74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
	TI	SN74LS245	
DM74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	**(3674)**
	Motorola	SN74LS251	
	National	74LS251	
	Rochester	74LS251	
	SGS-Thomson		
		T74LS251	
		74LS251	
	TI	SN74LS251	
DM74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	Motorola	SN74LS253	
	National	74LS253	
	Rochester	74LS253	
	SGS-Thomson		
		T74LS253	
		74LS253	
	TI	SN74LS253	
DM74LS257B	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257A	
		SN74LS257B	
	National	74LS257	
	Rochester	74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
	TI	SN74LS257B	
DM74LS258B	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258A	
		SN74LS258B	
	National	74LS258	
	Rochester	74LS258	
			(Continued)
DM74LS258B			(Cont'd)
	SGS-Thomson		
		T74LS258A	
		74LS258	
	TI	SN74LS258B	
DM74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	74LS259	
	Rochester	74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
	TI	SN74LS259B	
DM74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	74LS26	
	Rochester	74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
	TI	SN74LS26	
DM74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	74LS27	
	Rochester	74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
	TI	SN74LS27	
DM74LS279	Motorola	SN74LS279	
	National	74LS279	
	Rochester	74LS279	
	SGS-Thomson		
		T74LS279	
		74LS279	
	TI	SN74LS279A	
DM74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	**(3674)**
	Motorola	SN74LS283	
	National	74LS283	
	Rochester	74LS283	
	SGS-Thomson		
		T74LS283	
		74LS283	
	TI	SN74LS283	
DM74LS290	Motorola	SN74LS290	
	National	74LS290	
	SGS-Thomson		
		T74LS290	
	TI	SN74LS290	
DM74LS293	Motorola	SN74LS293	
	National	74LS293	
	SGS-Thomson		
		T74LS293	
		74LS293	
	TI	SN74LS292	
		SN74LS293	
DM74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	Motorola	SN74LS30	
	National	74LS30	
	Rochester	74LS30	
	SGS-Thomson		
		T74LS30	
		74LS30	
	TI	SN74LS30	
DM74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
	National	74LS32	
	Rochester	74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
	TI	SN74LS31	
		SN74LS32	
DM74LS352	**Lansdale**	**SL74LS352**	**(3674)**
	Motorola	SN74LS352	
	National	74LS352	
	SGS-Thomson		
		T74LS352	
		74LS352	
	TI	SN74LS352	
DM74LS365A	**Lansdale**	**SL74LS365A**	**(3674)**
	Motorola	SN74LS365A	
	National	74LS365	
	Rochester	74LS365	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
DM74LS365A			(Cont'd)
	SGS-Thomson		
		T74LS365A	
		74LS365A	
	TI	SN74LS365A	
DM74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	**(3674)**
	Motorola	SN74LS366A	
	National	74LS366	
	SGS-Thomson		
		T74LS366A	
		74LS366A	
	TI	SN74LS366A	
DM74LS367A	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	74LS367	
	Rochester	74LS367	
	SGS-Thomson		
		T74LS367A	
		74LS367A	
	TI	SN74LS367A	
DM74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	74LS368	
	Rochester	74LS368	
	SGS-Thomson		
		T74LS368A	
		74LS368A	
	TI	SN74LS368A	
DM74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	74LS37	
	Rochester	74LS37	
	SGS-Thomson		
		T74LS37	
		74LS37	
	TI	SN74LS37	
DM74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	Motorola	SN74LS373	
	National	74LS373	
	Rochester	74LS373	
	SGS-Thomson		
		T74LS373	
		74LS373	
	TI	SN74LS373	
DM74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	74LS374	
	SGS-Thomson		
		T74LS374	
		74LS374	
	TI	SN74LS374	
DM74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	74LS38	
	Rochester	74LS38	
	SGS-Thomson		
		T74LS38	
		74LS38	
	TI	SN74LS38	
DM74LS380	TI	SN74LS381A	
DM74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	SGS-Thomson		
		T74LS390	
		74LS390	
	TI	SN74LS390	
DM74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	74LS393	
	SGS-Thomson		
		T74LS393	
		74LS393	
	TI	SN74LS393	
DM74LS42	GoldStar	GD74LS42	
	Motorola	SN74LS42	
	National	74LS42	
	Rochester	74LS42	
	SGS-Thomson		
		T74LS42	
		74LS42	
	TI	SN74LS42	
			(Continued)
DM74LS450	National	DM74LS451	
DM74LS451	National	DM74LS450	
DM74LS453	National	DM74LS461	
DM74LS461	National	DM74LS453	
DM74LS471	Fujitsu	MB7118	
	National	DM74LS471-60	
	Philips	82LS135	
DM74LS471-60			
	National	DM74LS471	
DM74LS472A-45			
	Motorola	SN74LS48	
	National	74LS48	
DM74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	74LS503	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson		
		T74LS51	
		74LS51	
	TI	SN74LS51	
DM74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	74LS670	
	Rochester	74LS670	
	SGS-Thomson		
		T74LS670	
		74LS670	
	TI	SN74LS670	
DM74LS73A	GoldStar	GD74LS73A	
	Lansdale	**SL74LS73**	**(3674)**
	Motorola	SN74LS73A	
	TI	SN74LS73A	
DM74LS74	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	74LS74	
	Rochester	74LS74	
	SGS-Thomson		
		T74LS74A	
		74LS74	
	TI	SN74LS74A	
DM74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748	
		SN74LS75	
	Rochester	74LS75	
	SGS-Thomson		
		T74LS75	
	TI	SN74LS75	
DM74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	74LS83	
	Rochester	74LS83	
	SGS-Thomson		
		T74LS83A	
		74LS83A	
	TI	SN74LS83A	
DM74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
	National	74LS85	
	Rochester	74LS85	
	TI	SN74LS85	
DM74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	74LS86	
	Rochester	74LS86	
	SGS-Thomson		
		T74LS86	
		74LS86	
	TI	SN74LS86A	
DM74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	Rochester	74LS90	
	SGS-Thomson		
		T74LS90	
		74LS90	
	TI	SN74LS90	
DM74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	Rochester	74LS93	
	SGS-Thomson		
		T74LS93	
		74LS93	
	TI	SN74LS93	
♦ DM74L00	Rochester	74L00	
		93L00	
♦ DM74L01	Rochester	74L01	
			(Continued)
♦ DM74L02	Rochester	74L02	
♦ DM74L03	Rochester	74L03	
♦ DM74L04	Rochester	74L04	
♦ DM74L10	Rochester	74L10	
♦ DM74L121	Rochester	74L121	
♦ DM74L122	Rochester	74L122	
♦ DM74L123	Rochester	74L123	
♦ DM74L153	Rochester	74L153	
♦ DM74L154A	Rochester	74L154A	
♦ DM74L157	Rochester	74L157	
♦ DM74L164	Rochester	74L164	
♦ DM74L165	Rochester	74L165A	
♦ DM74L192	Rochester	74L192	
♦ DM74L193	Rochester	74L193	
DM74L20	Rochester	74L20	
♦ DM74L30	Rochester	74L30	
♦ DM74L42	Rochester	74L42	
♦ DM74L51	Rochester	74L51	
♦ DM74L54	Lansdale	NL75L54	
	Rochester	74L54	
♦ DM74L55	Rochester	74L55	
♦ DM74L71	Rochester	74L71	
♦ DM74L72	Rochester	54L72	
		74L72	
♦ DM74L73	Rochester	54L73	
		74L73	
♦ DM74L74	Rochester	74L74	
♦ DM74L75	Rochester	74L75	
♦ DM74L78	Rochester	74L78	
♦ DM74L85	Rochester	74L85	
♦ DM74L86	Rochester	74L86	
♦ DM74L91	Rochester	74L91	
♦ DM74L93	Rochester	74L93	
♦ DM74L95	Rochester	74L95	
♦ DM74L96	Rochester	74L96	
♦ DM74L98	Rochester	74L98	
♦ DM74L99	Rochester	74L99	
DM74S00	GoldStar	GD74S00	
	Lansdale	**SL74S00**	**(3675)**
	National	74S00	
	Rochester	74S00	
	TI	SN74S00	
DM74S02	GoldStar	GD74S02	
	Lansdale	**SL74S02**	**(3675)**
	National	74S02	
	Rochester	74S02	
	TI	SN74S02	
DM74S03	**Lansdale**	**SL74S03**	**(3675)**
	National	74S03	
	Rochester	74S03	
	TI	SN74S03	
DM74S04	GoldStar	GD74S04	
	Lansdale	**SL74S04**	**(3675)**
	National	74S04	
	Rochester	74S04	
	TI	SN74S04	
DM74S05	GoldStar	GD74S05	
	Lansdale	**SL74S05**	**(3675)**
	National	74S05	
	Rochester	74S05	
	TI	SN74S05	
DM74S08	GoldStar	GD74S08	
	Lansdale	**SL74S08**	**(3675)**
	National	74S08	
	Rochester	74S08	
	TI	SN74S08	
DM74S09	Rochester	74S09	
	TI	SN74S09	
DM74S10	GoldStar	GD74S10	
	Lansdale	**SL74S10**	**(3675)**
	National	74S10	
	Rochester	74S10	
	TI	SN74S10	
DM74S11	**Lansdale**	**SL74S11**	**(3675)**
	National	74S109	
		74S11	
	Rochester	74S11	
	TI	SN74S11	
DM74S112	GoldStar	GD74S112	
	Lansdale	**SL74S112**	**(3675)**
	National	74S112	
	Rochester	74S112	
	TI	SN74S112	
DM74S113	Rochester	74S113	
	TI	SN74S113	
DM74S133	GoldStar	GD74S133	
	Lansdale	**SL74S133**	**(3675)**
	National	74S133	
	Rochester	74S133	
	TI	SN74S133	
DM74S138	GoldStar	GD74S138	
	Lansdale	**SL74S138**	**(3675)**
	National	74S138	
			(Continued)
DM74S138			(Cont'd)
	Rochester	74S138	
	TI	SN74S138	
DM74S139	GoldStar	GD74S139	
	Lansdale	**SL74S139**	**(3675)**
	National	74S139	
	Rochester	74S139	
	TI	SN74S139	
DM74S140	**Lansdale**	**SL74S140**	**(3675)**
	Rochester	74S140	
	TI	SN74S140	
DM74S151	**Lansdale**	**SL74S151**	**(3675)**
	National	74S151	
	Rochester	74S151	
	TI	SN74S151	
DM74S153	GoldStar	GD74S153	
	Lansdale	**SL74S153**	**(3675)**
	National	74S153	
	Rochester	74S153	
	TI	SN74S153	
DM74S157	GoldStar	GD74S157	
	Lansdale	**SL74S157**	**(3675)**
	National	74S157	
	Rochester	74S157	
	TI	SN74S157	
DM74S158	GoldStar	GD74S158	
	Lansdale	**SL74S158**	**(3675)**
	National	74S158	
	Rochester	74S158	
	TI	SN74S158	
DM74S163	Rochester	74S163	
DM74S168	Rochester	74S168	
DM74S174	GoldStar	GD74S174	
	Lansdale	**SL74S174**	**(3675)**
	National	74S174	
	Rochester	74S174	
	TI	SN74S174	
DM74S175	GoldStar	GD74S175	
	Lansdale	**SL74S175**	**(3675)**
	National	74S175	
	Rochester	74S175	
	TI	SN74S175	
DM74S178	Rochester	74S178	
DM74S181	Rochester	74S181	
DM74S182	Rochester	74S182	
	TI	SN74S182	
DM74S188	Fujitsu	MB7111	
	National	DM74S188-35	
		DM74S188A	
		DM74S188A-25	
	Philips	82S23	
DM74S188-35			
	National	DM74S188	
		DM74S188A	
		DM74S188A-25	
DM74S188A	National	DM74S188	
		DM74S188-35	
		DM74S188A-25	
DM74S188A-25			
	National	DM74S188	
		DM74S188-35	
		DM74S188A	
DM74S189	AMD	AM27LS03	
		AM27S03	
		SN74S189	
	Cypress	CY27LS03	
		CY27S03	
		CY7C189	
		CY74S189	
		CY74S189-35C	
	Lansdale	**SL74S189**	**(3675)**
	National	DM74S189A	
	Rochester	74S189	
DM74S189A	Cypress	CY74S189-35C	
	Lansdale	**SL74S189**	**(3675)**
	National	DM74S189	
DM74S194	**Lansdale**	**SL74S194**	**(3675)**
	National	74S194	
	Rochester	74S194	
	TI	SN74S194	
DM74S195	**Lansdale**	**SL74S195**	**(3675)**
	Rochester	74S195	
	TI	SN74S195	
DM74S20	GoldStar	GD74S20	
	Lansdale	**SL74S20**	**(3675)**
	National	74S20	
	Rochester	74S20	
	TI	SN74S20	
DM74S22	Rochester	74S22	
DM74S226	Rochester	74S226	
DM74S240	GoldStar	GD74S240	
	Lansdale	**SL74S240**	**(3675)**
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
DM74S240			(Cont'd)
	Rochester	74S240	
	TI	SN74S240	
DM74S241	GoldStar	GD74S241	
	Lansdale	**SL74S241**	(3675)
	Rochester	74S241	
	TI	SN74S241	
DM74S244	Rochester	74S244	
DM74S251	GoldStar	GD74S251	
	Lansdale	**SL74S251**	(3675)
	Rochester	74S251	
	TI	SN74S251	
DM74S253	**Lansdale**	**SL74S253**	(3675)
	National	74S253	
	Rochester	74S253	
	TI	SN74S253	
DM74S257	GoldStar	GD74S257	
	Lansdale	**SL74S257**	(3675)
	National	74S257	
	Rochester	74S257	
	TI	SN74S257	
DM74S258	**Lansdale**	**SL74S258**	(3675)
	National	74S258	
	Rochester	74S258	
	TI	SN74S258	
DM74S280	GoldStar	GD74S280	
	Lansdale	**SL74S280**	(3675)
	TI	SN74S280	
DM74S283	Rochester	74S283	
DM74S287	AMD	AM27S21	
	Fujitsu	MB7114	
	National	DM74S287-50	
		DM74S287A-30	
DM74S287-50			
	National	DM74S287	
		DM74S287A-30	
DM74S287A-30			
	National	DM74S287	
		DM74S287-50	
DM74S288	AMD	AM27S19	
	Fujitsu	MB7112	
	National	DM74S288-35	
		DM74S288A	
		DM74S288A-25	
	Philips	82S123	
♦ DM74S288	Rochester	18S030	
DM74S288-35			
	National	DM74S288	
		DM74S288A	
		DM74S288A-25	
DM74S288A	National	DM74S288	
		DM74S288-35	
		DM74S288A-25	
DM74S288A-25			
	National	DM74S288	
		DM74S288-35	
		DM74S288A	
DM74S289	AMD	AM27S02	
		SN74S289	
	Cypress	CY27LS03	
		CY27S03	
		CY7C189	
		CY74S189	
	Rochester	74S289	
DM74S299	TI	SN74S299	
DM74S30	GoldStar	GD74S30	
	National	74S30	
	Rochester	74S30	
	TI	SN74S30	
DM74S32	GoldStar	GD74S32	
	Lansdale	**SL74S32**	(3675)
	National	74S32	
	Rochester	74S32	
	TI	SN74S32	
DM74S373	**Lansdale**	**SL74S373**	(3675)
	Rochester	74S373	
	TI	SN74S373	
DM74S374	GoldStar	GD74S374	
	Lansdale	**SL74S374**	(3675)
	Rochester	74S374	
	TI	SN74S374	
DM74S38	Rochester	74S38	
DM74S387	Fujitsu	MB7113	
	National	DM74S387A-30	
		DM74S387A-50	
	Philips	82S126	
	TI	SN74S381	
DM74S387A-30			
	National	DM74S387	
		DM74S387A-50	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
DM74S387A-30			(Cont'd)
	TI	SN74S381	
DM74S387A-50			
	National	DM74S387	
		DM74S387A-30	
	TI	SN74S381	
DM74S40	**Lansdale**	**SL74S40**	(3675)
	National	74S40	
	Rochester	74S40	
	TI	SN74S40	
DM74S472	AMD	AM27S29	
	Fujitsu	MB7124	
	National	DM74S472-60	
		DM74S472A	
		DM74S472A-45	
		DM74S472B	
		DM74S472B-35	
	Philips	82S147	
DM74S472-60			
	National	DM74S472	
		DM74S472A	
		DM74S472A-45	
		DM74S472B	
		DM74S472B-35	
DM74S472A	National	DM74S472	
		DM74S472-60	
		DM74S472A-45	
		DM74S472B	
		DM74S472B-35	
DM74S472A-45			
	National	DM74S472	
		DM74S472-60	
		DM74S472A	
		DM74S472B	
		DM74S472B-35	
DM74S472B	National	DM74S472	
		DM74S472-60	
		DM74S472A	
		DM74S472A-45	
		DM74S472B-35	
DM74S472B-35			
	National	DM74S472	
		DM74S472-60	
		DM74S472A	
		DM74S472A-45	
		DM74S472B	
DM74S473	Fujitsu	MB7123	
	National	DM74S473-60	
		DM74S473A	
		DM74S473A-45	
DM74S473-60			
	National	DM74S473	
		DM74S473A	
		DM74S473A-45	
DM74S473A	National	DM74S473	
		DM74S473-60	
		DM74S473A-45	
DM74S473A-45			
	National	DM74S473	
		DM74S473-60	
		DM74S473A	
DM74S474	AMD	AM27S31	
	National	DM74S474A	
	Philips	82S141	
DM74S474A	National	DM74S474	
DM74S475	National	DM74S475A	
DM74S475A	National	DM74S475	
DM74S51	GoldStar	GD74S51	
	Lansdale	**SL74S51**	(3675)
	National	74S51	
	Rochester	74S51	
	TI	SN74S482	
		SN74S51	
DM74S570	Fujitsu	MB7115	
	National	DM74S570-55	
		DM74S570A	
		DM74S570A-45	
	Philips	82S130	
DM74S570-55			
	National	DM74S570	
		DM74S570A	
		DM74S570A-45	
DM74S570A	National	DM74S570	
		DM74S570-55	
		DM74S570A-45	
DM74S570A-45			
	National	DM74S570	
		DM74S570-55	
		DM74S570A	
DM74S571	AMD	AM27S13	
	Fujitsu	MB7116	
	National	DM74S571-55	
		DM74S571A	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
DM74S571	National		(Cont'd)
		DM74S571A-45	
		DM74S571B	
		DM74S571B-35	
	Philips	82S131	
DM74S571-55			
	National	DM74S571	
		DM74S571A	
		DM74S571A-45	
		DM74S571B	
		DM74S571B-35	
DM74S571A	National	DM74S571	
		DM74S571-55	
		DM74S571A-45	
		DM74S571B	
		DM74S571B-35	
DM74S571A-45			
	National	DM74S571	
		DM74S571-55	
		DM74S571A	
		DM74S571B	
		DM74S571B-35	
DM74S571B	National	DM74S571	
		DM74S571-55	
		DM74S571A	
		DM74S571A-45	
		DM74S571B-35	
DM74S571B-35			
	National	DM74S571	
		DM74S571-55	
		DM74S571A	
		DM74S571A-45	
		DM74S571B	
DM74S572	Fujitsu	MB7121	
	National	DM74S572-60	
		DM74S572A	
		DM74S572A-45	
DM74S572-60			
	National	DM74S572	
		DM74S572A	
		DM74S572A-45	
DM74S572A	National	DM74S572	
		DM74S572-60	
		DM74S572A-45	
DM74S572A-45			
	National	DM74S572	
		DM74S572-60	
		DM74S572A	
DM74S573	AMD	AM27S33	
	Fujitsu	MB7122	
	National	DM74S573-60	
		DM74S573A	
		DM74S573A-45	
		DM74S573B	
		DM74S573B-35	
	Philips	82S137	
DM74S573-60			
	National	DM74S573	
		DM74S573A	
		DM74S573A-45	
		DM74S573B	
		DM74S573B-35	
DM74S573A	National	DM74S573	
		DM74S573-60	
		DM74S573A-45	
		DM74S573B	
		DM74S573B-35	
DM74S573A-45			
	National	DM74S573	
		DM74S573-60	
		DM74S573A	
		DM74S573B	
		DM74S573B-35	
DM74S573B	National	DM74S573	
		DM74S573-60	
		DM74S573A	
		DM74S573A-45	
		DM74S573B-35	
DM74S573B-35			
	National	DM74S573	
		DM74S573-60	
		DM74S573A	
		DM74S573A-45	
		DM74S573B	
DM74S64	GoldStar	GD74S64	
	Lansdale	**SL74S64**	(3675)
	National	74S64	
	Rochester	74S64	
	TI	SN74S64	
DM74S65	Rochester	74S65	
DM74S74	GoldStar	GD74S74	
	Lansdale	**SL74S74**	(3675)
	National	74S74	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
DM74S74			(Cont'd)
	Rochester	74S74	
	TI	SN74S74	
DM74S86	GoldStar	GD74S86	
	Lansdale	**SL74S86**	(3675)
	National	74S86	
	Rochester	74S86	
	TI	SN74S86	
♦ DM7400	**Lansdale**	**ML7400**	(3668)
		SL7400	
♦ DM7400	Rochester	7400	
♦ DM7401	**Lansdale**	**ML7401**	(3668)
		SL7401	
♦ DM7401	Rochester	7401	
♦ DM7402	**Lansdale**	**ML7402**	(3668)
		SL7402	
♦ DM7402	Rochester	7402	
♦ DM7403	**Lansdale**	**ML7403**	(3668)
		SL7403	
♦ DM7403	Rochester	7403	
♦ DM7404	**Lansdale**	**ML7404**	(3668)
		SL7404	
♦ DM7404	Rochester	8004	
♦ DM7405	**Lansdale**	**ML7405**	(3668)
		SL7405	
♦ DM7405	Rochester	7405	
♦ DM7406	**Lansdale**	**ML7406**	(3668)
		SL7406	
♦ DM7406	Rochester	7406	
♦ DM7407	**Lansdale**	**ML7407**	(3668)
		SL7407	
♦ DM7407	Rochester	7407	
♦ DM7408	**Lansdale**	**ML7408**	(3668)
		SL7408	
♦ DM7408	Rochester	7408	
♦ DM7409	**Lansdale**	**ML7409**	(3668)
		SL7409	
♦ DM7409	Rochester	7409	
♦ DM7410	**Lansdale**	**ML7410**	(3668)
		SL7410	
♦ DM7410	Rochester	7410	
♦ DM74107	**Lansdale**	**ML74107**	(3669)
		SL74107	
♦ DM74107	Rochester	74107	
♦ DM7411	Lansdale	SL7411	
	Rochester	7411	
♦ DM74117	Rochester	74117	
♦ DM74121	**Lansdale**	**ML74121**	(3669)
		SL74121	
♦ DM74121	Rochester	74121	
♦ DM74122	**Lansdale**	**ML74122**	(3669)
♦ DM74123	**Lansdale**	**ML74123**	(3669)
		SL74123	
♦ DM74123	Rochester	74123	
♦ DM74125	Lansdale	SL74125	
	Rochester	74125	
		8093	
♦ DM74126	Lansdale	SL74126	
	Rochester	74126	
♦ DM7413	**Lansdale**	**ML7413**	(3668)
		SL7413	
♦ DM7413	Rochester	7413	
♦ DM74132	**Lansdale**	**ML74132**	(3669)
		SL74132	
♦ DM74132	Rochester	74132	
♦ DM7414	**Lansdale**	**ML7414**	(3668)
		SL7414	
♦ DM7414	Rochester	7414	
♦ DM74141	Lansdale	ML74141	
	Rochester	74141	
♦ DM74145	Lansdale	ML74145	
		SL74145	
♦ DM74145	Rochester	74145	
♦ DM74148	Lansdale	SL74148	
	Rochester	74148	
		8618	
♦ DM74150	**Lansdale**	**ML74150**	(3669)
		SL74150	
♦ DM74150	Rochester	74150	
♦ DM74151	**Lansdale**	**ML74151**	(3669)
		SL74151	
♦ DM74151	Rochester	74151	
♦ DM74153	**Lansdale**	**ML74153**	(3669)
		SL74153	
♦ DM74153	Rochester	74153	
		8212	
♦ DM74154	**Lansdale**	**ML74154**	(3669)
		SL74154	
♦ DM74155	**Lansdale**	**ML74155**	(3669)
		SL74155	
♦ DM74155	Rochester	74155	
♦ DM74156	Lansdale	ML74156	
		SL74156	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ DM74156	Rochester	74156	
♦ DM74157	Lansdale	SL74157	
	Rochester	74157	
		8122	
♦ DM7416	**Lansdale**	**ML7416**	**(3668)**
		SL7416	
♦ DM7416	Rochester	7416	
♦ DM74160	**Lansdale**	**ML74160**	**(3669)**
		SL74160	
♦ DM74160	Rochester	74160	
♦ DM74161	**Lansdale**	**ML74161**	**(3669)**
		SL74161	
♦ DM74161	Rochester	74161	
♦ DM74162	**Lansdale**	**ML74162**	**(3669)**
	Rochester	74162	
♦ DM74163	**Lansdale**	**ML74163**	**(3669)**
		SL74163	
♦ DM74163	Rochester	74163	
♦ DM74164	Lansdale	ML74164	
		SL74164	
♦ DM74164	Rochester	74164	
♦ DM74165	**Lansdale**	**ML74165**	**(3669)**
		SL74165	
♦ DM74165	Rochester	74165	
♦ DM74166	Lansdale	ML74166	
		SL74166	
♦ DM74166	Rochester	74166	
♦ DM7417	**Lansdale**	**ML7417**	**(3668)**
		SL7417	
♦ DM7417	Rochester	7417	
		8017	
♦ DM74173	Lansdale	SL74173	
	Rochester	74173	
♦ DM74174	**Lansdale**	**ML74174**	**(3669)**
	Rochester	74174	
♦ DM74175	**Lansdale**	**ML74175**	**(3669)**
		SL74175	
♦ DM74175	Rochester	74175	
♦ DM74176	**Lansdale**	**ML74176**	**(3669)**
	Rochester	74176	
♦ DM74177	**Lansdale**	**ML74177**	**(3669)**
	Rochester	74177	
♦ DM74180	**Lansdale**	**ML74180**	**(3669)**
		SL74180	
♦ DM74180	Rochester	74180	
♦ DM74181	**Lansdale**	**ML74181**	**(3669)**
		SL74181	
♦ DM74181	Rochester	8181	
♦ DM74182	**Lansdale**	**ML74182**	**(3669)**
		SL74182	
♦ DM74182	Rochester	9342	
♦ DM74184	Rochester	74184	
♦ DM74185	Rochester	74185	
♦ DM74190	**Lansdale**	**ML74190**	**(3669)**
		SL74190	
♦ DM74190	Rochester	74190	
♦ DM74191	**Lansdale**	**ML74191**	**(3669)**
		SL74191	
♦ DM74191	Rochester	74191	
♦ DM74192	**Lansdale**	**ML74192**	**(3669)**
		SL74192	
♦ DM74192	Rochester	74192	
♦ DM74193	**Lansdale**	**ML74193**	**(3669)**
		SL74193	
♦ DM74193	Rochester	74193	
♦ DM74194	**Lansdale**	**ML74194**	**(3669)**
	Rochester	74194	
♦ DM74195	**Lansdale**	**ML74195**	**(3669)**
		SL74195	
♦ DM74195	Rochester	74195	
♦ DM74196	**Lansdale**	**ML74196**	**(3669)**
	Rochester	74196	
♦ DM74197	Rochester	74197	
♦ DM74198	Lansdale	ML74198	
		SL74198	
♦ DM74198	Rochester	74198	
♦ DM74199	Lansdale	ML74199	
		SL74199	
♦ DM74199	Rochester	74199	
♦ DM7420	**Lansdale**	**ML7420**	**(3668)**
		SL7420	
♦ DM7420	Rochester	7420	
♦ DM7421	Lansdale	SL7421	
	Rochester	7421	
♦ DM7425	**Lansdale**	**ML7425**	**(3668)**
		SL7425	
♦ DM7425	Rochester	7425	
♦ DM7426	**Lansdale**	**ML7426**	**(3668)**
		SL7426	
♦ DM7426	Rochester	7426	
♦ DM7427	**Lansdale**	**ML7427**	**(3668)**
		SL7427	
♦ DM74279	Lansdale	SL74279	
	Rochester	74279	
♦ DM7430	**Lansdale**	**ML7430**	**(3668)**
		SL7430	
♦ DM7430	Rochester	7430	
♦ DM7432	Lansdale	SL7432	
	Rochester	7432	
♦ DM74368	Rochester	8098	
♦ DM74368A	Lansdale	SL74368A	
♦ DM7437	**Lansdale**	**ML7437**	**(3668)**
		SL7437	
♦ DM7437	Rochester	7437	
♦ DM7438	**Lansdale**	**ML7438**	**(3668)**
		SL7438	
♦ DM7438	Rochester	7438	
		8038	
♦ DM7439	Lansdale	SL7439	
♦ DM7440	**Lansdale**	**ML7440**	**(3668)**
		SL7440	
♦ DM7440	Rochester	7440	
♦ DM7441	Lansdale	ML7441A	
♦ DM7442	**Lansdale**	**ML7442**	**(3668)**
		SL7442	
♦ DM7442	Rochester	7442	
♦ DM7445	Lansdale	ML7445	
		SL7445	
♦ DM7445	Rochester	7445	
♦ DM7446	Lansdale	ML7446	
	Rochester	7446	
♦ DM7447	Lansdale	ML7447	
		SL7447	
♦ DM7448	Lansdale	ML7448	
		SL7448	
♦ DM7448	Rochester	7448	
♦ DM7450	**Lansdale**	**ML7450**	**(3668)**
		SL7450	
♦ DM7450	Rochester	7450	
♦ DM7451	**Lansdale**	**ML7451**	**(3668)**
		SL7451	
♦ DM7453	**Lansdale**	**ML7453**	**(3668)**
		SL7453	
♦ DM7453	Rochester	7453	
♦ DM7454	**Lansdale**	**ML7454**	**(3668)**
		SL7454	
♦ DM7454	Rochester	7454	
♦ DM7460	Lansdale	ML7460	
		SL7460	
♦ DM7460	Rochester	7460	
♦ DM7470	**Lansdale**	**ML7470**	**(3668)**
		SL7470	
♦ DM7470	Rochester	7470	
♦ DM7472	**Lansdale**	**ML7472**	**(3668)**
		SL7472	
♦ DM7472	Rochester	7472	
♦ DM7473	**Lansdale**	**ML7473**	**(3668)**
		SL7473	
♦ DM7473	Rochester	7473	
♦ DM7474	**Lansdale**	**ML7474**	**(3668)**
		SL7474	
♦ DM7474	Rochester	7474	
♦ DM7475	**Lansdale**	**ML7475**	**(3668)**
		SL7475	
		SL8275	
♦ DM7475	Rochester	7475	
		8550	
♦ DM7476	**Lansdale**	**ML7476**	**(3668)**
		SL7476	
♦ DM7476	Rochester	7476	
♦ DM7483	**Lansdale**	**ML7483**	**(3668)**
		SL7483	
♦ DM7483	Rochester	7483	
♦ DM7485	**Lansdale**	**ML7485**	**(3669)**
		SL7485	
♦ DM7485	Rochester	7485	
♦ DM7486	**Lansdale**	**ML7486**	**(3669)**
		SL7486	
♦ DM7486	Rochester	7486	
♦ DM7489	Rochester	7489	
♦ DM7490	Lansdale	ML7490	
		SL7490	
DM7491	Rochester	7491A	
♦ DM7491	**Lansdale**	**ML7491A**	**(3669)**
	Rochester	7491	
♦ DM7492	Lansdale	ML7492	
		SL7492	
♦ DM7492	Rochester	7492	
DM7493	Rochester	7493A	
♦ DM7493	Lansdale	ML7493	
		SL7493	
♦ DM7493	Rochester	7493	
♦ DM7494	**Lansdale**	**ML7494**	**(3669)**
		SL7494	
♦ DM7494	Rochester	7494	
♦ DM7495	Lansdale	ML7495	
		SL7495	
♦ DM7495	Rochester	7495	
♦ DM7496	**Lansdale**	**ML7496**	**(3669)**
		SL7496	
♦ DM7496	Rochester	7496	
♦ DM75L63	Rochester	54L193	
♦ DM75L93	Rochester	54L93	
♦ DM75L95	Rochester	54L95	
DM75S07	AMD	AM27LS07	
	Cypress	CY27S07	
		CY7C190	
♦ DM7510	Rochester	7510	
♦ DM7541	Rochester	7541	
♦ DM7543	Rochester	7543	
♦ DM7544	Rochester	7544	
♦ DM7550	Rochester	7550	
♦ DM7551	Lansdale	SL8T10	
♦ DM7556	Rochester	7556	
♦ DM7557	Rochester	7557	
♦ DM7558	Rochester	7558	
♦ DM7562	Rochester	7562	
♦ DM7563	Rochester	7563	
♦ DM7575	Rochester	7575	
♦ DM7579	Rochester	7569	
DM7590	Unitrode	PIC7511	
♦ DM76L76	Rochester	93L16	
♦ DM76L90	Rochester	54L165	
♦ DM7603	Rochester	2503	
		7603	
		8603	
♦ DM7604	Rochester	2504	
		7604	
♦ DM7605	Rochester	2502	
		7605	
♦ DM7609	Rochester	7609	
♦ DM7618	Rochester	7618	
♦ DM7660	Rochester	7660	
♦ DM7661	Rochester	7661	
♦ DM7683	Rochester	7683	
DM77LS181	Cypress	CY7C282	
♦ DM77LS181	Rochester	93Z451	
DM77SR181	Cypress	CY7C235	
DM77SR25	Cypress	CY7C225	
DM77SR476	Cypress	CY7C225	
DM77ST476	Cypress	CY7C225	
DM77S181	Cypress	CY7C281	
		CY7C282	
DM77S181A	Cypress	CY7C281	
		CY7C282	
DM77S191	Cypress	CY7C292	
DM77S281	Cypress	CY7C281	
DM77S281A	Cypress	CY7C281	
DM77S291	Cypress	CY7C291	
DM77S321	Waferscale	WS57C43	
DM77S401	Cypress	CY7C401	
DM77S402	Cypress	CY7C402	
DM7822	Motorola	MC1489	
DM7837	Motorola	MC3437	
♦ DM8004	Rochester	8004	
♦ DM8014	Rochester	8014	
♦ DM8017	Rochester	8017	
♦ DM8024	Rochester	9024	
♦ DM8026	Rochester	8026	
♦ DM8038	Rochester	8038	
♦ DM8093	Rochester	8093	
♦ DM8098	Rochester	8098	
DM81LS95	AMD	DM81LS95	
♦ DM8122	Rochester	8122	
♦ DM8123	Rochester	8123	
♦ DM8130	Rochester	8130	
♦ DM8131	Rochester	8131	
♦ DM8136	Rochester	8136	
♦ DM8160	Rochester	8160	
♦ DM8181	Rochester	8181	
♦ DM8212	Rochester	8212	
♦ DM8213	Lansdale	ML8311	
♦ DM8218	Rochester	8218	
♦ DM8280	Lansdale	ML8280	
		SL8280	
♦ DM8281	Lansdale	ML8281	
		SL8281	
♦ DM8288	Lansdale	ML8288	
		SL8288	
♦ DM8290	Lansdale	ML8290	
		SL8290	
♦ DM8291	Lansdale	ML8291	
		SL8291	
♦ DM8300	Lansdale	ML8300	
♦ DM8301	Lansdale	ML8301	
♦ DM8309	Lansdale	ML8309	
	Rochester	8309	
♦ DM8310	Lansdale	ML8310	
	Rochester	9310	
♦ DM8311	Lansdale	ML8311	
♦ DM8312	Lansdale	ML8312	
♦ DM8316	Lansdale	ML8316	
♦ DM8318	Lansdale	ML8318	
	Rochester	9318	
♦ DM8322	Lansdale	ML8322	
♦ DM8334	Rochester	8334	
DM85S07	AMD	AM27S07	
	Cypress	CY27S07	
		CY7C128	
♦ DM8520	Rochester	8520	
♦ DM8544	Rochester	8544	
♦ DM8550	Rochester	8550	
♦ DM8556	Rochester	8556	
♦ DM8560	**Lansdale**	**ML74192**	**(3669)**
	Rochester	8560	
♦ DM8561	Rochester	8561	
♦ DM8563	**Lansdale**	**ML74193**	**(3669)**
♦ DM8570	Lansdale	ML74164	
♦ DM8575	Rochester	8575	
♦ DM8600	Lansdale	ML8300	
♦ DM8601	Lansdale	ML8601	
♦ DM8602	Lansdale	ML8602	
	Rochester	8602	
♦ DM8603	Rochester	2503	
		7603	
		8603	
♦ DM8604	Rochester	2504	
		7604	
		8604	
♦ DM8605	Rochester	2502	
		7605	
		8605	
♦ DM8618	Rochester	8618	
♦ DM8642	Rochester	8642	
DM87LS181	Cypress	CY7C282	
DM87SR181	AMD	AM27S37	
	Cypress	CY7C235	
	Fujitsu	MB7232	
DM87SR183	Fujitsu	MB7232	
DM87SR191	Fujitsu	MB7238	
	Waferscale	WS57C191	
DM87SR193	Fujitsu	MB7238	
	Waferscale	WS57C191	
DM87SR25	AMD	AM27S25	
	Cypress	CY7C225	
	Fujitsu	MB7226	
DM87SR27	AMD	AM27S27	
DM87SR476	AMD	AM27S25	
	Cypress	CY7C225	
DM87S181	AMD	AM27S181	
	Cypress	CY7C282	
	Fujitsu	MB7132	
	Philips	82S181	
DM87S185	AMD	AM27S185	
	Fujitsu	MB7128	
	Philips	82S185	
DM87S191	AMD	AM27S191	
	Cypress	CY7C292	
	Fujitsu	MB71A38	
		MB7138	
	Philips	82S191	
DM87S195	AMD	AM27S41	
	Fujitsu	MB7134	
	Philips	82HS195	
DM87S281	AMD	AM27S281	
	Cypress	CY7C281	
	Philips	82S181	
DM87S291	AMD	AM27S291	
	Cypress	CY7C291	
	Philips	82S191	
	Waferscale	WS57C291	
DM87S321	AMD	AM27S43	
	Fujitsu	MB7142	
	Philips	82HS321	
	Waferscale	WS57C43	
DM87S401	Cypress	CY7C401	
	GEC Plessey	MV66401	
DM87S402	Cypress	CY7C402	
	GEC Plessey	MV66401	
		MV66402	
DM87S625	Cypress	CY7C225	
DM8822	Motorola	MC1489	
DM8837	Motorola	MC3437	
♦ DM8846	Lansdale	ML7446	
♦ DM8850	Lansdale	ML9601	
♦ DM8851	Rochester	9602	
DM8887	Exar	XR6118	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ DM9002	**Lansdale**	**ML7400**	(3668)
	Rochester	9002	
◆ DM9003	**Lansdale**	**ML7410**	(3668)
	Rochester	9003	
◆ DM9004	**Lansdale**	**ML7420**	(3668)
	Rochester	9004	
◆ DM9005	**Lansdale**	**ML7450**	(3668)
	Rochester	9005	
◆ DM9006	Lansdale	ML74H60	
		SL74H60	
◆ DM9006	Rochester	9006	
◆ DM9008	**Lansdale**	**ML74H53**	(3669)
		SL74H53	
◆ DM9008	Rochester	9008	
◆ DM9009	**Lansdale**	**ML7440**	(3668)
	Rochester	9009	
◆ DM9012	**Lansdale**	**ML7403**	(3668)
	Rochester	9012	
◆ DM9016	**Lansdale**	**ML7404**	(3668)
	Rochester	9016	
◆ DM9024	Rochester	7124	
		9024	
◆ DM9093	Lansdale	ML853	
	Rochester	9093	
◆ DM9094	Lansdale	ML856	
	Rochester	9094	
◆ DM9097	Lansdale	ML855	
	Rochester	9097	
◆ DM9099	Lansdale	ML852	
	Rochester	9099	
◆ DM9157	Rochester	9157	
◆ DM9158	Rochester	9158	
◆ DM93L10	Rochester	93L10	
◆ DM930	Lansdale	ML830	
	Rochester	930	
◆ DM9300	Lansdale	ML9300	
◆ DM9301	Lansdale	ML9301	
	Rochester	9301	
◆ DM9305	Rochester	9305	
◆ DM9309	Lansdale	ML9309	
	Rochester	7609	
		8309	
		9309	
◆ DM9310	Lansdale	ML9310	
	Rochester	9310	
◆ DM9311	Lansdale	ML9311	
◆ DM9312	Lansdale	ML9312	
		SL8230	
◆ DM9312	Rochester	9312	
◆ DM9315	Rochester	9315	
◆ DM9316	Lansdale	ML9316	
◆ DM9318	Lansdale	ML9318	
	Rochester	9318	
◆ DM9319	Rochester	9319	
◆ DM932	Lansdale	ML832	
	Rochester	932	
◆ DM9320	Rochester	9320	
◆ DM9322	Lansdale	ML9322	
◆ DM933	Lansdale	ML833	
	Rochester	933	
DM9334	Rochester	9334	
◆ DM9334	Rochester	8334	
		9324	
◆ DM935	Lansdale	ML840	
	Rochester	9135	
		935	
◆ DM9358	Rochester	9358	
◆ DM936	Lansdale	ML836	
	Rochester	936	
◆ DM937	Lansdale	ML837	
	Rochester	937	
◆ DM938	Rochester	938	
◆ DM941	Rochester	941	
◆ DM944	Rochester	944	
◆ DM945	Lansdale	ML845	
	Rochester	945	
◆ DM946	Lansdale	ML846	
	Rochester	946	
◆ DM948	Lansdale	ML848	
	Rochester	948	
◆ DM949	Lansdale	ML849	
	Rochester	949	
◆ DM951	Lansdale	ML851	
◆ DM957	Lansdale	ML857	
◆ DM958	Lansdale	ML858	
◆ DM9601	Lansdale	ML9601	
◆ DM9602	Lansdale	ML9602	
◆ DM961	Lansdale	ML861	
	Rochester	961	
◆ DM962	Lansdale	ML862	
	Rochester	962	
◆ DM963	Lansdale	ML863	
	Rochester	963	
DN6835	Allegro Micro	UGN3501	
DN6836	Allegro Micro	UGN3501	
DN6838	Allegro Micro	UGN3130	
◆ DP36149	TI	SN74S436	
◆ DP36179	TI	SN74S437	
DP5016	MicroLinear	ML501-6C	
DP5016R	MicroLinear	ML501R-6C	
DP5018	MicroLinear	ML501-8C	
DP5018R	MicroLinear	ML501R-8C	
DP5380	LogicDev	L5380	
DP8212	AMD	D8212	
		P8212	
	Intel	D8212	
		P8212	
	TI	SN74S412	
◆ DP8212	**Lansdale**	**IL8212**	(3664)
DP8216	AMD	D8216	
		P8216	
	Intel	D8216	
		P8216	
	Motorola	MC8T26	
◆ DP8216	**Lansdale**	**IL8216**	(3664)
DP8224	AMD	AM8224	
		D8224	
	Intel	D8224	
		P8224	
◆ DP8224	**Lansdale**	**IL8224**	(3664)
DP8226	AMD	D8266	
		P8226	
	Intel	D8226	
		P8226	
	Motorola	MC8T28	
◆ DP8226	**Lansdale**	**IL8226**	(3664)
DP8228	AMD	AM8228	
		D8228	
	Intel	D8228	
	TI	SN74S428	
◆ DP8228	**Lansdale**	**IL8228**	(3664)
DP8238	Intel	D8238	
		P8238	
	TI	SN74S438	
DP8303	AMD	DP8303	
	Intel	D8287	
		P8287	
DP8307	AMD	DP8307	
DP8308	AMD	DP8308	
DP83231	AT&T	T7351A	
DP83241	AT&T	T7351A	
DP83251	AT&T	T7351A	
◆ DP8328	AMD	AM8238	
		D8328	
DP8340	SMC	COM90C84	
		COM9064	
DP8341	SMC	COM90C84	
		COM9064	
DP8344	SMC	COM52C50	
		COM90C84	
		COM9064	
DP8350	SMC	CRT5037	
DP83902	AT&T	T7231	
DP8392	Crystal	CS83C92	
	Fujitsu	MBL8392	
DP8392A	Philips	NE8392AN	
DP83922	AT&T	T7220A	
DP83950	AT&T	T7202	
DP83955	AT&T	T7201A	
DP84240	AMD	AM2965	
◆ DP84244	AMD	AM2966	
DP8464	Krueger	8464	
	MicroLinear	ML8464	
◆ DP8464	Rochester	68CE64	
DP8464B-2	MicroLinear	ML8464B-2C	
DP8464B-3	MicroLinear	ML8464B-3C	
DP8468B-2	MicroLinear	ML4568-2C	
DP8468B-3	MicroLinear	ML4568-3C	
DP8473	Krueger	8473	
DP8491	Hitachi	HD153030	
DS0026	**Harris**	**ICL7667**	(3638)
	Micrel	**MIC426**	(3688)
		MIC4426	(3688)
	TI	SN75369	
DS14C232	TI	MAX232	
DS14C88	Samsung	KS5788	
	TI	SN75C188	
DS14C89A	TI	SN75C189A	
		(Continued)	
DS1488	Motorola	MC1488	
	Philips	MC1488	
	SGS-Thomson	MC1488	
	TI	MC1488	
		SN75188	
DS1489	Motorola	MC1489	
	National	µA1489	
	Philips	MC1489	
	SGS-Thomson	MC1489	
	TI	MC1489	
		SN75189	
DS1489A	Motorola	MC1489A	
	Philips	MC1489A	
	TI	SN75189A	
DS16F95	TI	SN95176B	
DS2001	Allegro Micro	ULN2001	
	Motorola	MC1411	
	Philips	NE5601	
DS2002	Allegro Micro	ULN2002	
	Motorola	MC1412	
	Philips	NE5602	
DS2003	Allegro Micro	ULN2003	
	Motorola	MC1413	
	Philips	NE5603	
DS2004	Allegro Micro	ULN2004	
	Motorola	MC1416	
	Philips	NE5604	
DS25C03	Samsung	KS25C03	
DS26C31	Startech	ST26C31	
DS26C32	Startech	ST26C32	
DS26LS31	AMD	AM26LS31	
	Motorola	AM26LS31	
	National	µA26LS31	
	Philips	AM26LS31	
	TI	AM26LS31	
DS26LS32	AMD	AM26LS32	
	Motorola	AM26LS32	
	National	µA26LS32	
	Philips	AM26LS32	
	TI	AM26LS32	
DS26LS32A	AMD	AM26LS32	
	Philips	AM26LS32	
	TI	AM26LS32A	
DS26LS33	AMD	AM26LS33	
	TI	AM26LS33	
DS26LS33A	AMD	AM26LS33	
	Philips	AM27LS33	
	TI	AM26LS33A	
DS26S10	AMD	AM26S10	
	Motorola	MC26S10	
	TI	AM26S10	
DS26S11	TI	AM26S11	
DS3046	GEC Plessey	SL3046	
DS3145	GEC Plessey	SL3145	
◆ DS3245	Intel	D3245	
DS34C86	Startech	ST34C86	
DS34C87	Startech	ST34C87	
DS3486	Motorola	MC3486	
	National	µA3486	
	TI	MC3486	
DS3487	Motorola	MC3487	
	TI	MC3487	
DS36F95	TI	SN75ALS176	
DS3612	Motorola	MC1472	
DS3631	Allegro Micro	UDN3611	
	TI	SN75471	
DS3632	Allegro Micro	UDN3612	
	Motorola	MC1472	
	TI	SN75472	
		SN75477	
DS3633	Allegro Micro	UDN3613	
	TI	SN75473	
DS3634	TI	SN75474	
DS3650	Motorola	MC3450	
DS3651	Motorola	MC3430	
		MC3431	
DS3652	Motorola	MC3452	
DS3653	Motorola	MC3432	
◆ DS3653	Motorola	MC3432	
		MC3433	
DS3658	**Harris**	**CA3262**	(3638)
	TI	SN75436	
		SN75437	
		SN75438	
DS3668	**Harris**	**CA3242**	(3638)
	TI	SN75435	
DS3669	Harris	CA3252	
	TI	SN75440	
DS3680	TI	DS3680	
DS3691	AMD	AM26LS30	
	Motorola	AM26LS30	
	Philips	AM26LS30	
DS3695	TI	SN75176	
		TL3695	
DS3696	TI	SN75ALS056	
DS3697	TI	SN75177B	
DS55107	Motorola	MC75107	
	TI	SN55107B	
DS55108	TI	SN55108B	
DS55110	Motorola	MC75S110	
DS55110A	TI	SN55110A	
DS55113	TI	SN55113	
DS55122	Philips	N8T4	
	TI	SN55122	
DS5522	Rochester	5522	
DS55325	Linfinity Micro	SG55325	
DS55451	Linfinity Micro	SG55451	
DS55452	Linfinity Micro	SG55452	
DS55453	Linfinity Micro	SG55453	
DS55454	Linfinity Micro	SG55454	
DS55461	Linfinity Micro	SG55461	
DS55462	Linfinity Micro	SG55462	
DS55463	Linfinity Micro	SG55463	
DS55464	Linfinity Micro	SG55464	
DS55470	Linfinity Micro	SG55470	
DS55471	Linfinity Micro	SG55471	
DS75107	Motorola	MC75107	
	National	µA75107	
	Philips	75S107	
	TI	SN75107B	
DS75108	Motorola	MC75108	
	National	µA75108	
	Philips	75S108	
	TI	SN75108B	
DS75110	Motorola	MC75S110	
	TI	SN75110	
DS75110A	Motorola	MC75S110	
	TI	SN75110A	
DS75113	TI	SN75113	
DS75114	TI	SN75114	
DS75115	TI	SN75115	
DS75121	Motorola	MC8T13	
	Philips	N8T13	
	TI	N8T13	
		SN75121	
DS75123	Motorola	MC8T23	
	Philips	N8T23	
	TI	N8T23	
		SN75123	
DS75124	Motorola	MC8T24	
	Philips	N8T24	
	TI	N8T24	
		SN75124	
◆ DS75125	Motorola	MC75125	
	TI	SN75125	
◆ DS75127	Motorola	MC75127	
	TI	SN75127	
DS75128	Motorola	MC75128	
	TI	SN75128	
DS75129	Motorola	MC75129	
	Philips	N8T129	
	TI	SN75129	
◆ DS75145	TI	SN75154	
DS75150	National	µA75150	
	Philips	N8T15	
	TI	SN75150	
DS75154	National	µA75154	
	TI	SN75154	
DS75160	TI	SN75160	
DS75161	TI	SN75161	
DS75162	TI	SN75162	
DS75176	TI	SN75176	
DS75176B	Motorola	SN75176	
	TI	SN75176	
DS75176BT	TI	SN65176B	
DS7520	Rochester	7520	
DS75207	Motorola	MC75107	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
DS75208	Motorola	MC75108	
	Philips	75S208	
	TI	SN75208	
DS75325	Motorola	MC75325	
	TI	SN75325	
DS75361	TI	SN75361	
DS75365	TI	SN75365	
DS75450	National	µA75450	
	TI	SN75450	
DS75451	National	µA75491	
	TI	SN75451	
DS75452	TI	SN75452	
DS75453	TI	SN75453	
DS75454	TI	SN75454	
DS75461	TI	SN75461	
DS75462	TI	SN75462	
DS75463	TI	SN75463	
DS75464	TI	SN75464	
DS75491	Motorola	MC75491	
	TI	SN75491	
DS75492	Motorola	MC75492	
	TI	SN75492	
DS75494	Philips	NE582	
	TI	SN75494	
DS78C120	ECI Semi	78C120	
DS7820	Philips	DS7820	
DS7820A	TI	SN55182	
DS7830	Philips	DS7830	
	TI	SN55183	
DS7831	Rochester	7831	
DS7837	Motorola	MC3437	
DS7842	Rochester	7842	
DS7846	Rochester	7846	
DS7851	Rochester	7851	
DS7852	Rochester	7852	
DS8T26	AMD	N8T26	
	Motorola	MC6880	
		MC8T26	
DS8T26	Philips	N8T26	
	TI	N8T26	
DS8T28	AMD	N8T28	
	Motorola	MC6889	
		MC8T28	
	Philips	N8T28	
DS8224	TI	SN74LS424	
DS8614	GEC Plessey	SP8789	
DS8615	GEC Plessey	SP8797	
	Motorola	MC12015	
DS8616	GEC Plessey	SP8793	
		SP8795	
DS8617	GEC Plessey	SP8718	
DS8621	Motorola	MC12071	
DS8628	GEC Plessey	SP8658	
DS8641	Motorola	DS8641	
DS8820	Philips	DS8820	
	TI	DS8820	
		SN75182	
DS8820A	TI	SN75182	
DS8830	Signetics	DS8830	
	TI	DS8830	
		SN75183	
DS8831	TI	DS8831	
DS8832	TI	DS8832	
DS8833	Motorola	MC8T28	
DS8834	Motorola	MC8T26	
	Philips	N8T34	
DS8835	Motorola	MC8T26	
DS8836	Philips	N8T380	
DS8837	Motorola	MC3437	
	Philips	N8T37	
DS8838	AMD	AM26S12	
		DS8838	
	Motorola	MC3438	
	Philips	N8T38	
DS8839	Motorola	MC8T28	
DS8880	Philips	DS8880	
	TI	SN75480	
DS8889	Motorola	MC3491	
DS8922	Motorola	MC34051	
DS8923	Motorola	MC34050	
DS96F177	TI	SN75177	
DS9614	Motorola	MC75S110	
	TI	SN55114	
DS9615	Motorola	MC75108	
	TI	SN55115	
DS96172	TI	SN75172	
DS96173	TI	SN75173	
DS96174	TI	SN75174	
DS96175	TI	SN75175	
DS96176	TI	SN75176	
DS96177	TI	SN75177	
DS9627	Motorola	MC1489	
DS9636	Motorola	MC3488	
	TI	µA9636	
DS9636A	Motorola	MC3488	
	TI	UA9636A	
DS9637	Motorola	MC3486	
	TI	µA9637	
DS9637A	TI	µA9637A	
DS9638	Motorola	MC3487	
	TI	µA9638	
DS9639	TI	µA9639	
DS9639A	TI	µA9639	
♦ DS9643	TI	SN75322	
		SN75363	
FPQ2907A	Allegro Micro	TPQ2907A	
FSA141	Linfinity Micro	SG5770	
FSA1411	Linfinity Micro	SG5768	
FSA2002	Linfinity Micro	SG5768	
FSA2003	Linfinity Micro	SG5770	
FSA2500	Linfinity Micro	SG5772	
FSA2501	Linfinity Micro	SG5772	
FSA2503	Linfinity Micro	SG5774	
FSA2504	Linfinity Micro	SG5774	
FSA2509	Linfinity Micro	SG5774	
FSA2510	Linfinity Micro	SG5772	
FSA2563	Linfinity Micro	SG5768	
FSA2564	Linfinity Micro	SG5770	
FSA2565	Linfinity Micro	SG25768	
FSA2566	Linfinity Micro	SG25770	
FSA2619	Allegro Micro	TND908	
	Linfinity Micro	SG6101	
FSA2620	Linfinity Micro	SG6100	
FSA2621	Linfinity Micro	SG6100	
FSA2719	Allegro Micro	TND903	
	Linfinity Micro	SG6101	
FSA2720	Linfinity Micro	SG6100	
FSA2721	Linfinity Micro	SG6100	
F10E422	Cypress	CY10E422	
F10E474	Cypress	CY10E474	
F100E422	Cypress	CY100E422	
F100E474	Cypress	CY100E474	
F100181	LogicDev	L7C164	
F100182	LogicDev	L7C165	
F100183	LogicDev	L7C161	
F100321	**Synergy**	**SY100S321**	**(3806)**
F100324	**Synergy**	**SY100S324**	**(3802, 3806)**
F100325	**Synergy**	**SY100S325**	**(3802, 3806)**
F100328	**Synergy**	**SY100S328**	**(3802, 3806)**
F16K	Krueger	4116-120	
		4116-150	
		4116-200	
F16L8	Cypress	CYPALC16L8	
F16P8	Cypress	CYPALC16L8	
F16RP4	Cypress	CYPALC16R4	
F16RP6	Cypress	CYPALC16R6	
F16RP8	Cypress	CYPALC16R8	
F16R4	Cypress	CYPALC16R4	
F16R6	Cypress	CYPALC16R6	
F16R8	Cypress	CYPALC16R8	
F1600	Cypress	CY7C187	
	LogicDev	L7C187	
F1601	Cypress	CY7C187	
F1602	LogicDev	L7C187	
F1620	Cypress	CY7C164	
F1621	Cypress	CY7C164	
	LogicDev	L7C164	
F1622	Cypress	CY7C166	
	LogicDev	L7C165	
F2114	**Krueger**	**2114-200**	**(3663)**
F21144	**Krueger**	**2114-150**	**(3663)**
		2114-450	**(3663)**
F2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
F3146	GEC Plessey	SL3046	
F3486	SMC	COM5025	
F3564	Hughes	H23C64	
		H23C65	
F3568	Hughes	H23C64	
		H23C65	
F3856	SMC	COM5025	
F4016	Unitrode	PIC7516	
F4066	Unitrode	PIC7516	
F4116	Krueger	4116-120	
		4116-150	
		4116-200	
F4702	SMC	COM8126	
		COM8146	
F47218	Hughes	H1822	
F54F189	Cypress	CY7C189	
F54F219	Cypress	CY7C190	
F54F413	Cypress	CY7C401	
F54S189	Cypress	CY54S189	
F6850	SMC	COM8017	
F74F189	Cypress	CY7C189	
F74F219	Cypress	CY7C190	
F74F413	Cypress	CY7C401	
F74LS189	Cypress	CY27LS03	
F74S189	Cypress	CY74S189	
F93L422	Cypress	CY93L422	
F93Z451	Cypress	CY7C282	
F93Z511	Cypress	CY7C292	
F93Z565	Cypress	CY7C264	
F93Z611	Cypress	CY7C291	
		CY7C292	
F93Z665	Cypress	CY7C264	
F93Z667	Cypress	CY7C261	
		CY7C263	
F93422	Cypress	CY93422	
F93475	Cypress	CY2149	
GAL16V8	AMD	PALCE16V8	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
GAL16V8A	Cypress	PLDC18G8	
GAL18V10	Lattice	GAL18V10	
GAL20RA10	Intel	PLD610	
		85C060	
GAL20V8	AMD	PALCE20V8	
	Intel	85C224	
	ICT	PEEL20CG10	
GAL22VV10	Intel	85C22V10	
GAL22V10	Intel	PLD22V10	
		85C224	
	Lattice	GAL22V10	
GAL26CV12	Lattice	GAL26CV12	
GAL6001	Lattice	GAL6001	
♦ HA7-5222-9	National	LM6218AJ	
ICM7556	Harris	ICM7556	
IDM2909	Cypress	CY2909	
IDM2909A	Cypress	CY2909	
IDM2911A	Cypress	CY2911	
		CY2911A	
INS8039	Krueger	8039	
INS8080A	Krueger	8080A	
♦ INS8080A	**Lansdale**	**IL8080A**	**(3664)**
INS8216	Motorola	MC8T26	
INS8226	Motorola	MC8T28	
INS8250	**Krueger**	**8250**	**(3663)**
INS8251	SMC	COM8251	
INS8255	Krueger	8255	
♦ KS25C04	National	DM25C04	
K74C372	National	MM74C32	
LAS1506	SemTech	LAS1506	
LF11201	AD	SW201	
	Harris	DG201	
	NJR	NJU201A	
	Siliconix	DG411	
LF11202	AD	SW202	
	Siliconix	DG412	
LF11333	AD	SW06	
LF11508	AD	MUX08	
	Burr-Brown	HI508A	
		MPC508	
LF11509	AD	MUX24	
	Burr-Brown	HI509A	
		MPC509	
♦ LF117	SGS-Thomson	LM117	
LF12201	Siliconix	DG411	
LF12202	Siliconix	DG412	
♦ LF123	SGS-Thomson	LM123	
LF13201	AD	SW201	
	Harris	DG201	
		DG211	
		HF201	
		HI201	
	Siliconix	DG201	
		DG211	
		DG411	
LF13202	AD	SW202	
	Harris	DG212	
	Siliconix	DG202	
		DG212	
		DG412	
LF13333	AD	SW06	
LF13508	AD	MUX08	
	Harris	DG508A	
		IH6106	
		IH6108	
	Siliconix	DG508	
LF13509	AD	AD7502	
		MUX24	
	Harris	DG509A	
		IH6206	
		LF13509	
	Siliconix	DG509	
LF13741	Burr-Brown	OPA121	
♦ LF146	Exar	XR146	
LF147	Exar	XR084	
	Harris	CA084	
	Motorola	MC34004	
LF155	AD	PM155	
	Burr-Brown	OPA156A	
	LinearTech	LF1055	
		LF155	
		LT1055	
	MicroPwr	MP155	
LF155A	AD	PM155A	
	LinearTech	LF155A	
LF156	AD	PM156	
	Burr-Brown	OPA156A	
	LinearTech	LF156	
		LT1056	
	MicroPwr	MP156	
LF156A	AD	PM156A	
	LinearTech	LF156A	
LF157	AD	PM157	
	Harris	CA3130	
	MicroPwr	MP157	
LF157A	AD	LF157A	
LF198	AD	AD583	
		SMP10	
		SMP11	
	Burr-Brown	**SHC298**	**(3471)**
	Harris	HA2420	
	LinearTech	LF198	
	Philips	LF198	
		SE5537	
	SGS-Thomson	LF198	
	TI	LF198	
LF198A	LinearTech	LF198A	
♦ LF246	Exar	XR246	
LF255	AD	PM155	
	SGS-Thomson	LF255	
LF256	AD	PM156	
	SGS-Thomson	LF256	
LF257	AD	PM157	
	SGS-Thomson	LF257	
LF298	AD	SMP10	
		SMP11	
	Burr-Brown	**SHC298**	**(3471)**
	Philips	LF298	
	SGS-Thomson	LF298	
♦ LF346	Exar	XR346	
LF347	AnalogSys	MA374	
	Exar	XR084	
	Harris	CA084	
	Hitachi	HA17084	
	Motorola	LF347	
		MC34004	
	National	µA774	
	NJR	**NJM064**	**(3704)**
	Samsung	KF347	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LF347 (Cont'd)			
	SGS-Thomson	LF347	
	TI	LF347	
		TL074	
		TL084	
LF351	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Burr-Brown	OPA156	
		OPA156A	
	Harris	CA3140	
	Motorola	LF351	
		MC34001	
	National	μA771	
	Samsung	KF351	
	SGS-Thomson	LF351	
	TI	LF351	
		TL071	
		TL081	
LF352	Motorola	LF355	
LF353	AnalogSys	MA336	
		MA372	
	Burr-Brown	OPA2111	
	Harris	CA3240	
	Hitachi	HA17082	
	Motorola	LF353	
		MC34002	
	National	μA772	
	NJR	**NJM353**	(3704)
	SGS-Thomson	LF353	
	TI	LF353	
		TL072	
		TL082	
LF355	AD	PM355	
	LinearTech	LF355	
		LT1055	
	MicroPwr	MP355	
	Motorola	LF355	
	SGS-Thomson	LF355	
◆ LF355	Rochester	LF355	
LF355A	AD	PM355A	
	LinearTech	LF355A	
	SGS-Thomson	LF355A	
LF356	AD	PM356	
	AnalogSys	MA332	
		MA333	
		MA362	
	LinearTech	LF356	
		LT1022	
		LT1056	
	MicroPwr	MP356	
	Motorola	LF356	
	SGS-Thomson	LF356	
◆ LF356	Rochester	LF356	
LF356A	AD	PM356A	
	LinearTech	LF356A	
	SGS-Thomson	LF356A	
LF357	AD	PM357	
	Harris	CA3130	
	LinearTech	LT1022	
	MicroPwr	MP357	
	Motorola	LF357	
	SGS-Thomson	LF357	
LF357A	AD	PM357A	
	SGS-Thomson	LF357A	
LF398	AD	AD582	
		SMP10	
		SMP11	
	Burr-Brown	**SHC298**	(3471)
		SHC80	
		SHC85	
	LinearTech	LF398	
	Philips	LF398	
		NE5537	
		SE5537	
	SGS-Thomson	LF398	
	TI	LF398	
LF398A	LinearTech	LF398A	
			(Continued)
LF400	AD	OP42	
	Harris	CA3100	
	LinearTech	LT1122	
LF411	AD	AD611	
		OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Burr-Brown	**OPA602**	(3457, 3459)
	Harris	CA081	
		CA3140	
	Motorola	LF411	
		MC35001	
	TI	LF411	
		TL071	
		TL081	
		TL087	
		TL088	
LF412	AD	OP215	
	AnalogSys	MA336	
		MA372	
	Burr-Brown	OPA2111	
	Harris	CA082	
		CA3140	
		CA3240	
	Hitachi	HA17082	
	LinearTech	LF412	
	Motorola	LF412	
		MC34002	
	TI	LF412	
		TL072	
		TL082	
		TL288	
LF412A	LinearTech	LF412A	
LF441	**AD**	**AD548**	(3526)
		OP43	
	Motorola	LF441	
	TI	TL061	
	Toshiba	TA75061	
LF442	Harris	HA5142	
	Motorola	LF442	
	Samsung	KF442	
	TI	TL062	
LF444	Burr-Brown	OPA404	
	Harris	HA5144	
	Motorola	LF444	
	TI	TL064	
LH000	Motorola	MC1776	
LH0002	AD	BUF03	
	Elantec	ELH0002	
	Harris	CA3140	
		HA5002	
	LinearTech	LT1010	
	National	SH0002	
LH0003	AD	AD509	
	Elantec	EHA2520	
	Harris	HA2520	
		HA2522	
		HA2525	
LH0004	Harris	HA2640	
	Motorola	MC1436	
		MC1536	
LH001	GEC Plessey	SL560	
LH002	GEC Plessey	SL560	
LH0021	Elantec	ELH0021	
	National	3572	
LH0022	Burr-Brown	OPA121	
	Harris	CA3140	
◆ LH0022	AD	AD506	
LH0023	AD	SMP11	
LH0024	Burr-Brown	3551	
	Harris	HA2530	
		HA2535	
LH0032	AD	ADLH0032	
	Burr-Brown	**3554**	(3459)
	Elantec	EL2006	
	Harris	HA2540	
		HA2542	
	TeledyneP	TP0032	
LH0033	AD	ADLH0033	
		BUF03	
	Burr-Brown	HOS100	
		3533	
	Elantec	ELH0033	
		EL2004	
		EL2005	
		EL2031	
	Harris	HA5033	
	Maxim	LH0033	
	TeledyneP	TP0033	
LH0036	AD	AD521	
	Burr-Brown	3626	
			(Continued)
LH0038	**AD**	**AMP01**	(3520)
◆ LH0038	AD	AD524	
		AD624	
		AMP01	(3520)
◆ LH0038	Burr-Brown	INA102	
		3629	
LH0041	Elantec	ELH0041	
LH0042	AD	AD0042	
		AD3542	
		LH0042	
	Burr-Brown	OPA121	
		3542	
	Harris	CA3140	
LH0043	AD	SMP10	
LH0044	AD	OP77	
	LinearTech	LT1001	
	TI	OP07	
LH0052	Burr-Brown	OPA111	
◆ LH0052	Harris	HA5180	
LH0053	**Burr-Brown**	**SHC5320**	(3471)
		SHC85	
LH0062	AD	OP42	
◆ LH0062	Harris	HA5162	
LH0063	**Apex**	**WB05**	(3544)
	Maxim	LH0063	
◆ LH0063	**Burr-Brown**	**3553**	(3459)
LH0070	AD	AD581	
	GEC Plessey	ZNREF100	
	LinearTech	AD581	
		LH0070	
		LT1031	
	Raytheon	REF01	
LH0071	GEC Plessey	ZNREF100	
◆ LH0084	**Burr-Brown**	**3606**	(3462)
LH0086	Burr-Brown	PGA100	
		PGA102	
◆ LH0086	AD	AD614	
	Burr-Brown	**3606**	(3462)
LH0101	**Apex**	**PA01**	(3545)
		PA010	
		PA02	(3545)
	Elantec	ELH0101	
	Harris	ICH8530	
	Maxim	LH0101	
	Siemens	TCA365	
LH042	Motorola	MC1776	
LH101	Motorola	MC1741	
LH1605	National	SH1605	
LH201	Motorola	MC1741	
LH2101	Motorola	MC1537	
LH2101A	Raytheon	LH2101A	
LH2108	LinearTech	LH2108	
◆ LH2108	AD	PM2108	
	LinearTech	LH2108	
	MicroPwr	MP2108	
LH2108A	LinearTech	LH2108A	
LH2111	National	μA2111	
	Raytheon	LH2111	
LH2201	Motorola	MC1537	
LH2301	Motorola	MC1437	
LH4004	Harris	HA5004	
LH4161	**Harris**	**HA2544**	(3637)
◆ LH6364	Harris	HA2525	
		HA2625	
LH740	AD	OP43	
	Burr-Brown	OPA121	
	Motorola	LF355	
LMC555	Harris	ICM7555	
	Philips	ICM7555	
	TI	TLC555	
LMC660	SGS-Thomson	TS27M4	
	TI	TLC274	
LMC668	Harris	ICL7650	
		ICL7650S	
LMC7660	**Harris**	**ICL7660**	(3638)
		ICL7660S	(3638)
	TeledyneC	TC7660	
LMF100	MicroLinear	ML2111	
LMF100CC	MicroLinear	ML2111CC	
LM10	Gennum	GC810	
	LinearTech	LM10	
LM101	AD	AD101	
		OP08	
		OP77	
	Lin Int Sys	LSOP07	
	LinearTech	LM101	
	Linfinity Micro	SG101	
	Motorola	LM101	
	National	μA101	
	SGS-Thomson	LM101	
			(Continued)
◆ LM101	Rochester	LM101	
LM101A	LinearTech	LM101A	
	Raytheon	LM101A	
	SGS-Thomson	LM101A	
	TI	LM101A	
LM102	AD	OP15	
LM103	Linfinity Micro	SG103	
	Raytheon	TL103	
LM1035	Motorola	LM1035	
LM104	Linfinity Micro	SG104	
LM105	Linfinity Micro	SG105	
	National	μA105	
	SGS-Thomson	LM105	
◆ LM106	Rochester	LM106	
LM107	LinearTech	LM107	
	Linfinity Micro	SG107	
	Motorola	MC1741	
	TI	LM107	
◆ LM107	Rochester	LM107	
LM108	AD	PM1008	
		PM108	
	LinearTech	LM108	
		LT1008	
	MicroPwr	MP108	
	National	μA108	
	TI	LM108	
LM108A	LinearTech	LM108A	
	National	μA108A	
LM108AH/883	TI	LM108ALB	
LM108AJ-8/883	TI	LM108AJGB	
LM108H/883	TI	LM108LB	
LM108J-8/883	TI	LM108JGB	
LM109	Linfinity Micro	SG109	
	Motorola	LM109	
	Philips	LM109	
	SGS-Thomson	LM109	
LM11	AD	OP97	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	LM11	
LM110	National	μA110	
LM111	**AD**	**PM111**	(353
	Hitachi	LM111	
	LinearTech	LM111	
		LT1011	
		LT111	
	Motorola	LM111	
	National	μA111	
	Philips	LM111	
	Raytheon	LM111	
	TI	LM111	
◆ LM111	Rochester	LM111	
LM112	AD	PM1012	
	LinearTech	LT1012	
	Motorola	MC1556	
LM113	GEC Plessey	ZN423	
	Harris	ICL8069	
	Lin Int Sys	LS5010	
	LinearTech	LT1004	
	MicroPwr	MP5010	
LM113-1.2	GEC Plessey	REF12	
LM114	Lin Int Sys	LS312	
LM114A	Lin Int Sys	LS312	
LM115	Lin Int Sys	LS312	
LM117	LinearTech	LM117	
		LT117	
	Linfinity Micro	SG117	
	Motorola	LM117	
		LM217	
	National	μA117	
	SGS-Thomson	LM117	
	Unitrode	UC117	
LM117K	SemTech	LLM117	
LM118	AD	OP42	
	LinearTech	LM118	
		LT118	
	Motorola	MC1741	
LM118H/883	TI	LM118LB	
LM118J-8/883	TI	LM118JGB	
			(Continue

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM119	AD	PM119	
	LinearTech	LM119	
		LT119	
	Philips	LM119	
	SGS-Thomson	LM119	
◆ LM119	Rochester	LM119	
LM12	**Apex**	**PA01**	**(3545)**
		PA010	
		PA011	
		PA02	**(3545)**
		PA07	**(3545)**
		PA10	**(3545)**
		PA12	**(3545)**
		PA51	**(3545)**
		PA61	**(3545)**
		PA73	**(3545)**
	Burr-Brown	OPA541	
LM120	Linfinity Micro	SG120	
	Motorola	MC7905	
		MC7912	
		MC7915	
	SGS-Thomson	µA7905	
		µA7915	
LM1203	GoldStar	GL1160	
LM122	Motorola	MC1556	
LM123	LinearTech	LM123	
		LT1003	
		LT123	
	Linfinity Micro	SG123	
	Motorola	LM123	
		LM223	
	SGS-Thomson	LM123	
LM123A	LinearTech	LT123A	
LM124	AD	OP11	
		OP421	
		PM420	
	Harris	CA124	
	LinearTech	LT1014	
	Linfinity Micro	SG124	
	Motorola	LM124	
	National	µA124	
	Philips	LM124	
	Raytheon	LM124	
	SGS-Thomson	LM124	
	TI	LM124	
LM124A	SGS-Thomson	LM124A	
LM124E/883	TI	LM124FKB	
LM124J	TI	LM124J	
LM124J/883	TI	LM124JB	
LM125	Motorola	MC1568	
LM126	Motorola	MC1568	
LM128	Motorola	MC1568	
LM129	LinearTech	LM129	
LM129A	LinearTech	LM129A	
LM131	**Burr-Brown**	**VFC32**	**(3472)**
LM133	LinearTech	LT1033	
LM134	AD	AD590	
	LinearTech	LM134	
	SGS-Thomson	LM134	
LM135	AD	AD590	
	SGS-Thomson	LM135	
LM136	**AD**	**REF43**	**(3536)**
	GEC Plessey	ZNREF025	
	Lin Int Sys	LS1009	
	LinearTech	LM1009	
		LM136	
		LT1009	
		LT1029	
	Raytheon	REF-02	
LM136-2.5	Lin Int Sys	LS1009	
LM136-5	GEC Plessey	ZNREF050	
LM13600	Exar	XR13600	
	Philips	NE5517	
LM137	LinearTech	LM137	
		LT1033	
		LT137	
	Linfinity Micro	SG137	
	Motorola	LM137	
		LM237	
LM137			(Cont'd)
	SGS-Thomson	LM137	
	TI	LM237	
	Unitrode	UC137	
LM138	LinearTech	LM138	
		LT138	
	Linfinity Micro	SG138	
	SGS-Thomson	LM138	
LM138K	SemTech	LLM138	
LM139	**AD**	**PM139**	**(3539)**
	Harris	CA139	
	Motorola	LM139	
	National	µA139	
	Philips	LM139	
	Raytheon	LM139	
	SGS-Thomson	LM139	
	TI	LM139	
LM139A	**AD**	**PM139A**	**(3539)**
	Harris	CA139A	
	Philips	LM139A	
	SGS-Thomson	LM139A	
LM139AJ	TI	LM139AJ	
LM139AJ/883	TI	LM139AJB	
LM139J/883	TI	LM139JB	
LM1391	Harris	CA1391	
	Motorola	MC1391	
LM1394	Harris	CA1394	
LM140	Linfinity Micro	SG140	
	Motorola	LM140	
	National	µA7805	
		µA7812	
		µA7815	
	SGS-Thomson	µA7812	
		µA7815	
		LM7805	
LM1408	Motorola	MC1408	
LM1414	Motorola	MC1414	
◆ LM1414	Rochester	LM1414	
LM143	Harris	HA2640	
	Linfinity Micro	SG143	
		SG1536	
	Motorola	MC1536	
LM1458	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Exar	XR1458	
	Harris	CA1458	
	Hitachi	HA17458	
	Motorola	MC1458	
	National	µA1458	
	NJR	NJM1458	
	Panasonic	AN1458	
		AN6572	
	Philips	MC1458	
	Raytheon	RC1458	
	Samsung	MC1458	
	SGS-Thomson	MC1458	
	TI	MC1458	
LM146	Exar	XR146	
	SGS-Thomson	LM146	
LM148	AD	PM148	
	LinearTech	LT1014	
	Raytheon	LM148	
	SGS-Thomson	LM148	
	TI	LM148	
LM148E/883	TI	LM148FKB	
LM148J/883	TI	LM148JB	
LM1489	Motorola	MC1489	
LM149	AD	OP471	
	Motorola	MC4741	
LM1496	Motorola	MC1496	
	Philips	MC1496	
LM150	LinearTech	LM150	
		LT150	
	Linfinity Micro	SG150	
	Motorola	LM150	
		LM250	
	National	LM150	
	Unitrode	UC150	
LM150K	SemTech	LLM150	
LM1514	Elantec	ELH0101	
◆ LM1514	Motorola	MC1514	
	Rochester	TL514	
LM1524	Exar	XR1524	
	Harris	CA1524	
	LinearTech	LT1524	
		SG1524	
	Linfinity Micro	SG1524	
	SGS-Thomson	SG1524	
	Unitrode	UC1524	
◆ LM1525	LinearTech	SG1525	
	Linfinity Micro	SG1525	
	SGS-Thomson	SG1525	
	Unitrode	UC1525	
◆ LM1527	LinearTech	SG1527	
	Linfinity Micro	SG1527	
	SGS-Thomson	SG1527	
	Unitrode	UC1527	
LM1558	AD	OP14	
	Harris	CA1558	
	Motorola	MC1558	
	National	µA1558	
	Philips	MC1558	
	Raytheon	RC1558	
	TI	MC155	
	Toshiba	TA75458	
LM1574	Micrel	MIC1574	
LM1575	Micrel	MIC1575	
LM1575K-ADJ	SemTech	LM1575K-ADJ	
LM1575K-12	SemTech	LM1575K-12	
LM1575K-15	SemTech	LM1575K-15	
LM1575K-5.0	SemTech	LM1575K-5	
LM1576	Micrel	MIC1576	
LM1576K-ADJ	SemTech	LM1576K-ADJ	
LM1576K-12	SemTech	LM1576K-12	
LM1576K-15	SemTech	LM1576K-15	
LM1576K-5.0	SemTech	LM1576K-5	
LM158	AD	OP14	
		OP221	
	Harris	CA158	
	LinearTech	LT1013	
	Motorola	LM158	
	Philips	LM158	
		SE532	
	SGS-Thomson	LM158	
	TI	LM158	
LM158A	Harris	CA158A	
	SGS-Thomson	LM158A	
LM158J	TI	LM158JG	
LM158J/883	TI	LM158JGB	
LM1596	Motorola	MC1596	
	Philips	MC1596	
LM160	AD	CMP08	
LM161	Philips	NE529	
		SE529	
LM163	**AD**	**AMP01**	**(3520)**
	Motorola	MC3450	
◆ LM168	LinearTech	LT1019	
		REF01	
LM168-10	GEC Plessey	ZNREF100	
LM168-5	GEC Plessey	ZNREF050	
LM168-6	GEC Plessey	ZNREF062	
LM169	LinearTech	LT1021	
◆ LM170	Lansdale	ML1710	
LM171	Motorola	MC1590	
LM1819	Cherry Semi	CS289	
LM1822	Motorola	MC13010	
LM1823	Harris	LM1823	
LM18293	Allegro Micro	UDN2993	
	Hitachi	HA13421	
	SGS-Thomson	L293	
	Unitrode	L293	
LM1837	SGS-Thomson	LM1837	
LM1849	Motorola	MC3484	
LM185	AD	AD589	
		REF43	**(3536)**
	Lin Int Sys	LS5010	
	LinearTech	LM185	
		LT1004	
		LT1034	
	MicroPwr	MP5010	
	TI	LM185	
LM185-1.2	GEC Plessey	REF12	
LM185-2.5	GEC Plessey	REF25	
	Lin Int Sys	LS1009	
LM185-5	GEC Plessey	ZNREF050	
LM1851	Samsung	KA2807	
LM1889	Motorola	MC1374	
LM1900	Motorola	MC3301	
LM1921	Harris	HIP1030	
LM193	Harris	CA3290	
	Motorola	LM193	
	Philips	LM193	
	SGS-Thomson	LM193	
	TI	LM193	
LM193A	Philips	LM193A	
	SGS-Thomson	LM193A	
LM193H/883	TI	LM193LB	
LM194	AD	MAT02	
	Lin Int Sys	LS312	
LM195	Unitrode	LM195	
		UC195	
LM196	LinearTech	LT1038	
LM1981	Motorola	MC13020	
LM199	LinearTech	LM199	
LM201	AD	PM1008	
	Lin Int Sys	LSOP07	
	Linfinity Micro	SG201	
	Motorola	LM201	
	National	µA201	
	SGS-Thomson	LM201	
	TI	LM201	
LM201A	SGS-Thomson	LM201A	
LM202	AD	OP15	
LM204	Linfinity Micro	SG204	
	Motorola	MC78L05	
LM205	Linfinity Micro	SG205	
LM207	AD	OP77	
	Lin Int Sys	LSOP07	
	Linfinity Micro	SG207	
	Motorola	MC1741	
	TI	LM207	
LM208	AD	PM1008	
		PM208	
	MicroPwr	MP208	
	Motorola	MC78L08	
	National	µA208	
	SGS-Thomson	LM208	
LM208A	AD	LM208A	
	National	µA208A	
LM209	Linfinity Micro	SG209	
LM210	AD	AD201	
		OP15	
LM211	**AD**	**PM211**	**(3539)**
	Motorola	LM211	
	Philips	LM211	
	SGS-Thomson	LM211	
	TI	LM211	
LM212	AD	PM1012	
	Motorola	MC1456	
LM217	Linfinity Micro	SG217	
	TI	LM217	
	Unitrode	UC217	
LM218	AD	OP42	
	Motorola	MC1741	
	SGS-Thomson	LM218	
	TI	LM218	
LM219	AD	PM219	
	Philips	LM219	
	SGS-Thomson	LM219	
LM220	Linfinity Micro	SG220	
	Motorola	MC7905	
		MC7912	
		MC7915	
LM222	Motorola	MC1556	
LM223	SGS-Thomson	LM223	
LM224	AD	OP11	
		OP421	
	Harris	CA224	
	Linfinity Micro	SG224	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM224			(Cont'd)
	Motorola	LM224	
	National	µA224	
	Philips	LF224	
		LM224	
	SGS-Thomson		
		LM224	
	TI	LM224	
LM224A	Samsung	LM224A	
	SGS-Thomson		
		LM224A	
LM2240	TI	UA2240	
LM225	Motorola	MC1568	
LM226	Motorola	MC1568	
LM228	Motorola	MC1568	
LM234	LinearTech	LM234	
	SGS-Thomson		
		LM234	
LM235	SGS-Thomson		
		LM235	
LM236	**AD**	**REF03**	(3536)
	GEC Plessey	ZNREF025	
	SGS-Thomson		
		LM236	
LM236-2.5	Lin Int Sys	LS1009	
LM237	Linfinity		
	Micro	SG237	
	SGS-Thomson		
		LM237	
	TI	LM237	
	Unitrode	UC237	
LM238	Linfinity		
	Micro	SG238	
	SGS-Thomson		
		LM238	
LM239	**AD**	**PM139**	(3539)
	Harris	CA239	
	Motorola	LM239	
	National	µA239	
	Philips	LM239	
		LM239A	
	Samsung	LM239	
	SGS-Thomson		
		LM239	
	TI	LM239	
LM239A	Harris	CA239A	
	Philips	LM239A33	
	SGS-Thomson		
		LM239A	
LM240	Linfinity		
	Micro	SG240	
	Motorola	MC78L05	
		MC78L08	
		MC78L12	
		MC78L15	
		MC78L18	
		MC78L24	
LM243	Motorola	MC1536	
LM246	SGS-Thomson		
		LM246	
LM248	AD	PM248	
	Motorola	LM248	
	Samsung	LM248	
	TI	LM248	
LM249	AD	OP471	
	Motorola	MC4741	
	SGS-Thomson		
		LM248	
LM250	Linfinity		
	Micro	SG250	
	Unitrode	UC250	
LM2524	Harris	CA2524	
	Linfinity		
	Micro	SG2524	
	Philips	SG3524	
	SGS-Thomson		
		SG2524	
	Unitrode	UC2524	
LM2574	Micrel	MIC2574	
LM2575	LinearTech	LT1076	
	Micrel	MIC2575	
LM2575K-5.0	SemTech	LM2575K-5	
LM2575T-ADJ	SemTech	LM2575T-ADJ	
LM2575T-12	SemTech	LM2575T-12	
LM2575T-15	SemTech	LM2575T-15	
LM2575T-5.0	SemTech	LM2575T-5	
LM2576	Micrel	MIC2576	
LM2576-ADJ	ECI Semi	2576	
LM2576T-ADJ	SemTech	LM2576T-ADJ	
LM2576T-12	SemTech	LM2576T-12	
LM2576T-15	SemTech	LM2576T-15	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM2576T-5.0	SemTech	LM2576T-5	
LM2577	LinearTech	LT1071	
LM2579	SGS-Thomson		
		L4960	
		L4962	
LM258	AD	OP221	
	Harris	CA258	
	Motorola	LM258	
	Philips	LM258	
		SA532	
	SGS-Thomson		
		LM258	
	TI	LM258	
LM258A	Harris	CA258A	
	Samsung	LM258A	
LM260	AD	CMP08	
LM268-10	GEC Plessey	ZNREF100	
LM268-6	GEC Plessey	ZNREF062	
LM271	Motorola	MC1590	
LM285	AD	REF08	
	Lin Int Sys	LS5010	
	Motorola	LM285	
LM285-1.2	GEC Plessey	REF12	
LM285-2.5	GEC Plessey	REF25	
	Lin Int Sys	LS1009	
LM2900	Motorola	LM2900	
	NJR	NJM2900	
	Raytheon	LM2900	
	TI	LM2900	
LM2901	**AD**	**PM139**	(3539)
		PM339	
	Harris	CA3290	
	Hitachi	HA17901	
	Motorola	LM2901	
	National	µA2901	
	Philips	LM2901	
	Samsung	LM2901	
	SGS-Thomson		
		LM2901	
	TI	LM2901	
		TLC339	
	Toshiba	TA75339	
LM2902	AD	OP421	
	AnalogSys	MA374	
	Hitachi	HA17902	
	Motorola	LM2902	
	NJR	NJM2902	
	Philips	LM2902	
		SA534	
	Samsung	LM2902	
	SGS-Thomson		
		LM2902	
	TI	LM2902	
	Toshiba	TA75902	
LM2903	Harris	CA3290	
	Hitachi	HA17903	
	Motorola	LM2903	
	Panasonic	AN1393	
		AN6914	
	Philips	LM2903	
	Samsung	LM2903	
	SGS-Thomson		
		LM2903	
	TI	LM2903	
	Toshiba	TA75393	
LM2904	AD	OP221	
	AnalogSys	MA336	
		MA372	
	Hitachi	HA17094	
	Motorola	LM2904	
	NJR	**NJM2904**	(3704)
	Philips	LM2904	
		SA532	
	Samsung	LM2904	
	SGS-Thomson		
		LM2904	
	TI	LM2904	
	Toshiba	TA75358	
LM2905	Motorola	MC1455	
LM2907	Cherry Semi	CS2907	
	TI	LM2907	
LM2907N	Cherry Semi	CS2907	
LM29125	Cherry Semi	CS955	
LM2917	Cherry Semi	CS2917	
	TI	LM2917	
LM2917N	Cherry Semi	CS2917	
LM2925	Cherry Semi	CS925	
LM293	Harris	CA3290	
	Motorola	LM293	
	Philips	LM293	
	Samsung	LM293	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM293			(Cont'd)
	SGS-Thomson		
		LM293	
	TI	LM293	
LM293A	Philips	LM293	
		LM293A	
LM2930	SGS-Thomson		
		LM2930	
	TI	LM2930	
LM2931	ECI Semi	2931	
	Motorola	LM2931	
	SGS-Thomson		
		LM2931	
	Signal Proc	SPT116	
	TI	LM2931	
LM2931A	SGS-Thomson		
		LM2931A	
	Signal Proc	SPT116	
LM2935	Cherry Semi	CS935	
	LinearTech	LT1005	
	Linfinity		
	Micro	SG29055	
	Motorola	LM2935	
	SGS-Thomson		
		LM2935	
LM2936	Signal Proc	SPT116	
LM2940	LinearTech	LT1086	
	SGS-Thomson		
		L4940	
		L4941	
LM2985	Cherry Semi	CS965	
	Linfinity		
	Micro	SG29085	
LM301	AD	AD301	
		OP15	
		PM1008	
	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	CA301	
	Lin Int Sys	LSOP07	
	Linfinity		
	Micro	SG301	
	Motorola	LM301	
	National	µA301	
	Samsung	KA301	
	SGS-Thomson		
		LM301	
	TI	LM301	
LM301A	Harris	CA301A	
	National	µA301	
	Raytheon	LM301A	
	SGS-Thomson		
		LM301A	
LM3026	Motorola	CA3054	
LM304	Linfinity		
	Micro	SG304	
LM3045	GEC Plessey	SL3046	
	Harris	CA3045	
	Motorola	MC3446	
LM3046	GEC Plessey	SL3046	
	Harris	**CA3046**	(3637)
	Motorola	MC3346	
		MC3446	
LM305	Linfinity		
	Micro	SG305	
	National	µA305	
	SGS-Thomson		
		LM305	
LM305A	National	µA305A	
LM3054	Motorola	CA3054	
♦ LM306	Rochester	LM306	
LM3064	Motorola	MC13010	
LM307	AD	OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	CA307	
	Lin Int Sys	LSOP07	
	Linfinity		
	Micro	SG307	
	Motorola	LM307	
	TI	LM307	
♦ LM307	Rochester	LM307	
LM308	AD	PM1008	
		PM308	
	Lin Int Sys	LSOP07	
	LinearTech	LM308	
		LT1008	
	MicroPwr	MP308	
	National	µA308	
	SGS-Thomson		
		LM308	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM308A	AD	PM308A	
	LinearTech	LM308A	
	SGS-Thomson		
		LM308A	
LM3080	Harris	CA3080	
LM3086	Harris	CA3086	
	National	µA3086	
LM3089	Harris	CA3089	
	Hitachi	HA12411	
	Motorola	MC3356	
	Philips	CA3089	
	SGS-Thomson		
		TCA3089	
LM309	Linfinity		
	Micro	SG309	
	Motorola	LM309	
	Philips	LM309	
	SemTech	LAS1505	
	SGS-Thomson		
		LM309	
LM310	AD	OP15	
LM311	**AD**	**PM211**	(3539)
	Harris	CA311	
	LinearTech	LM311	
		LT1011	
		LT311	
	Motorola	LM311	
	National	µA311	
	NJR	NJM311	
	Panasonic	AN1311	
	Philips	LM311	
	Samsung	LM311	
	SGS-Thomson		
		LM311	
	TI	LM311	
♦ LM311	Rochester	LM311	
LM312	AD	PM1012	
	LinearTech	LT1012	
	Motorola	MC1456	
LM313	GEC Plessey	ZN423	
	Harris	ICL8069	
	Lin Int Sys	LS5010	
LM3146	GEC Plessey	SL3145	
	Harris	CA3146	
	Motorola	MC3346	
LM3146M	National	CA3146M	
LM317	LinearTech	LM317	
		LT317	
	Linfinity		
	Micro	LM317	
		SG317	
	Motorola	LM317	
	National	µA317	
	SemTech	LLM317	
	SGS-Thomson		
		LM317	
	TI	LM317	
		TL317	
	Unitrode	UC317	
LM318	AD	OP42	
	AnalogSys	MA332	
		MA362	
	LinearTech	LM318	
		LT318	
	Motorola	MC1741	
	NJR	**NJM318**	(3704
	SGS-Thomson		
		LM318	
	TI	LM318	
LM3189	Harris	CA3189	
	Motorola	MC3356	
LM319	AD	PM219	
		PM319	
	LinearTech	LM319	
		LT319	
	NJR	NJM319	
	Panasonic	AN1319	
	Philips	LM319	
	Samsung	KA319	
	SGS-Thomson		
		LM319	
LM320	Linfinity		
	Micro	SG320	
	Motorola	MC79L05	
		MC79L12	
		MC79L15	
		MC7906	
		MC7908	
		MC7912	
		MC7918	
		MC7924	
	SemTech	LAS1805	
		LAS1812	
		LAS1815	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM320	SemTech		(Cont'd)
		LAS1818	
		LAS1824	
LM322	Motorola	MC1455	
LM323	LinearTech	LM323	
		LT1003	
		LT323	
	Linfinity Micro	SG323	
	Motorola	LM323	
	National	SH323	
	SemTech	LAS1405	
		LLM323	
	SGS-Thomson	LM323	
		L78S05	
LM323K	SemTech	LLM323K	
LM324	AD	OP11	
		OP421	
	AnalogSys	MA374	
	Burr-Brown	**OPA1013**	**(3457)**
	ECI Semi	324	
	Harris	CA324	
	Hitachi	HA17324	
	LinearTech	LT1014	
	Linfinity Micro	SG324	
	Motorola	LM324	
	National	µA324	
	NJR	NJM324	
	Panasonic	AN1324	
		AN6564	
	Philips	LM324	
		LM324A	
	Raytheon	LM324	
	Samsung	LM324	
	SGS-Thomson	LM324	
	TI	LM324	
LM324A	Philips	LM324A	
	Samsung	LM324A	
	SGS-Thomson	LM324A	
LM325	Motorola	MC1468	
	Raytheon	RC4195	
LM326	Motorola	MC1468	
	Raytheon	RC4195	
LM328	Motorola	MC1468	
LM329	LinearTech	LM329	
LM329A	LinearTech	LM329A	
LM330	Motorola	MC7905	
		MC7915	
	TI	LM330	
LM3301	Hitachi	HA17301	
	Motorola	MC3301	
LM3302	**AD**	**PM139**	**(3539)**
		PM339	
	Harris	CA3290	
		LM3302	
	Motorola	MC3302	
	National	µA3302	
	Philips	MC3302	
	Samsung	LM3302	
	SGS-Thomson	MC3302	
	TI	LM3302	
LM3303	SGS-Thomson	MC3303	
	TI	MC3303	
LM331	AD	AD537	
		AD650	
		AD651	
		AD654	**(3535)**
	Burr-Brown	**VFC32**	**(3472)**
	Samsung	KA331	
LM333	LinearTech	LT1033	
LM334	LinearTech	LM334	
	SGS-Thomson	LM334	
LM335	Astec Semi	AS1004	
	SGS-Thomson	LM335	
LM336	**AD**	**REF03**	**(3536)**
	Lin Int Sys	LS1009	
	LinearTech	LM336	
		LT1009	
		LT1029	
LM336			(Cont'd)
	Samsung	KA336	
	SGS-Thomson	LM336	
		TBC0136	
	TI	LM336	
		LT1009	
LM336-2.5	GEC Plessey	REF25	
	Lin Int Sys	LS1009	
LM336-5	GEC Plessey	REF50	
LM3361	Motorola	MC3361	
LM337	LinearTech	LM337	
		LT1003	
		LT1033	
		LT337	
	Linfinity Micro	SG337	
	Motorola	LM337	
	SGS-Thomson	LM337	
	TI	LM337	
	Unitrode	UC337	
LM338	LinearTech	LM338	
		LT338	
	Linfinity Micro	SG338	
	SemTech	LLM338	
	SGS-Thomson	LM338	
LM338A	LinearTech	LT338A	
LM339	AD	PM339	
	ECI Semi	339	
	Harris	CA339	
	Hitachi	HA17339	
	LinearTech	LM399	
	Motorola	LM339	
	NJR	NJM2901	
	Philips	LM339	
	Raytheon	LM339	
	SGS-Thomson	LM339	
	TI	LM339	
		LP339	
		TLC339	
	Toshiba	TA75339	
LM339A	AD	PM339A	
	Harris	CA339A	
	Philips	LM339A	
	Samsung	LM339A	
	SGS-Thomson	LM339A	
LM34	AD	AD590	
LM340	Linfinity Micro	SG340	
	Motorola	LM340	
		LM3400	
		MC78L05	
		MC78L08	
		MC78L12	
		MC78L15	
		MC78L18	
		MC78L24	
		MC7808	
		MC7818	
	National	µA7805	
		µA7812	
		µA7815	
	Philips	LM340	
	SemTech	LAS1505	
		LAS1506	
		LAS1508	
		LAS1512	
		LAS1515	
		LAS1518	
		LAS1524	
LM3401	Harris	CA3401	
	Motorola	MC3401	
LM3403	Philips	MC3403	
	SGS-Thomson	MC3403	
LM341	Motorola	MC78M05	
		MC78M06	
		MC78M08	
		MC78M12	
		MC78M15	
		MC78M18	
		MC78M24	
LM342	Motorola	MC78M05	
		MC78M06	
		MC78M08	
		MC78M12	
		MC78M15	
		MC78M18	
		MC78M24	
LM343	Harris	HA2645	
	Linfinity Micro	SG1436	
		SG343	
	Motorola	LM1436	
		MC1436	
LM345	Motorola	MC7905	
LM346	Exar	XR346	
	SGS-Thomson	LM346	
LM348	AnalogSys	MA374	
	LinearTech	LT1014	
	Motorola	LM348	
		MC4741	
	National	µA348	
	Raytheon	LM348	
		RC4156	
		RC4157	
	Samsung	LM348	
	SGS-Thomson	LM348	
	TI	LM348	
LM349	AD	OP471	
	Motorola	MC4741	
LM35	AD	AD590	
LM350	LinearTech	LM350	
		LT350	
	Linfinity Micro	SG350	
	Motorola	LM350	
	National	µA350	
	SemTech	LLM350	
	Unitrode	UC350	
LM350A	LinearTech	LT350A	
LM3503	SGS-Thomson	MC3503	
LM351	AnalogSys	MA362	
LM3524	Exar	XR3524	
	Harris	CA3524	
	LinearTech	LT3524	
		SG3524	
	Linfinity Micro	SG3524	
	Philips	SG3524	
	Samsung	KA3524	
	SGS-Thomson	SG3524	
	TI	SG3524	
	Unitrode	UC3524	
♦ LM3525	Allegro Micro	SG3525	
	LinearTech	SG3525	
	Linfinity Micro	SG3525	
	SGS-Thomson	SG3525	
	Unitrode	UC3525	
LM3527	Allegro Micro	SG3527	
	LinearTech	SG3527	
	Linfinity Micro	SG3527	
	SGS-Thomson	SG3527	
	Unitrode	UC3527	
LM356	AnalogSys	MA362	
LM358	AD	OP221	
	AnalogSys	MA336	
		MA372	
	Harris	CA358	
	Hitachi	HA17358	
	LinearTech	LT1013	
	Motorola	LM358	
	NJR	**NJM2904**	**(3704)**
	Panasonic	AN1358	
		AN6562	
	Philips	LM358	
		NE532	
	SGS-Thomson	LM358	
	TI	LM358	
	Toshiba	TA75358	
LM358A	Harris	CA358A	
	Philips	NE532	
	Samsung	LM358A	
	SGS-Thomson	LM358A	
LM360	AD	CMP08	
	NJR	NJM360	
LM361	Philips	NE529	
LM363	**AD**	**AMP01**	**(3520)**
	Motorola	MC3450	
LM368	**AD**	**REF01**	**(3536)**
		REF02	
		REF43	**(3536)**
	LinearTech	LT1019	
		REF01	
	Raytheon	REF01	
		REF02	
		REF03	
LM368-10	GEC Plessey	ZNREF100	
LM368-6	GEC Plessey	ZNREF062	
LM369	AD	AD588	
		REF01	**(3536)**
	LinearTech	LT1021	
	Raytheon	REF01	
LM371	Motorola	MC1590	
LM381	SGS-Thomson	TDA2310	
LM385	AD	AD589	
		REF03	**(3536)**
	Astec Semi	AS1004	
	ECI Semi	EC385	
		385	
	Harris	ICL8069	
	Lin Int Sys	LS5010	
	LinearTech	LM385	
		LT1004	
		LT1034	
	MicroPwr	MP5010	
	Motorola	LM385	
	TI	LM385	
		LT1004	
LM385-1.2	GEC Plessey	REF12	
LM385-2.5	GEC Plessey	REF25	
	Lin Int Sys	LS1009	
LM386	GoldStar	GL386	
	Motorola	MC34119	
LM3900	Motorola	LM3900	
	NJR	NJM3900	
	Raytheon	LM3900	
	TI	LM3900	
LM3903	SGS-Thomson	LM2903	
LM3905	Motorola	MC1455	
LM3914	TI	TL489	
		TL490	
		TL491	
LM3915	TI	TL487	
LM393	Harris	CA3290	
	Hitachi	HA17393	
	Motorola	LM393	
	NJR	NJM2903	
	Panasonic	AN1393	
		AN6914	
	Philips	LM393	
		LM393A	
	Samsung	LM393	
	SGS-Thomson	LM393	
	TI	LM393	
		TLC393	
	Toshiba	TA75393	
LM393A	Philips	LM393A	
	Samsung	LM393A	
	SGS-Thomson	LM393A	
LM394	AD	MAT02	
		SSM2210	**(3542)**
	Lin Int Sys	LS312	
LM396	LinearTech	LT1038	
LM399	LinearTech	LM399	
LM399A	LinearTech	LM399A	
LM4040	ECI Semi	EC4040	
LM4136	TI	RC4136	
LM4250	AD	OP22	
	Motorola	MC1776	
	NJR	**NJM4250**	**(3704)**
LM431	ECI Semi	431	
	Samsung	KA431	
	TI	TL431	
LM431A	Astec Semi	A431	
		TL431	
LM4741	Panasonic	AN6554	
LM494	Unitrode	UC494	
LM55109	Motorola	MC75S110	
LM55110	Motorola	MC75S110	
♦ LM5524	Rochester	5524	
LM5539	Philips	NE5539	
LM555	Motorola	MC1455	
	National	µA555	
	Philips	NE555	
		SE555	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM555			(Cont'd)
	Samsung	NE555	
	SGS-Thomson	NE555	
		SE555	
	TI	SA555	
		SE555	
	Toshiba	TA7555	
LM555H/883	TI	SE555LB	
LM555J	TI	SE555JG	
LM555J/883	TI	SE555JGB	
LM556	Harris	ICM7556	
	Motorola	MC3456	
	National	μA556	
	Philips	NE556	
		SE556	
	Samsung	NE556	
	SGS-Thomson	NE556	
		SE556	
		SG556	
	TI	NE555	
		SA556	
		SE556	
LM556J	TI	SE556J	
LM556J/883	TI	SE556JB	
LM565	Philips	NE565	
LM566	Philips	NE566	
		SE566	
LM567	Exar	XR567	
	Philips	NE567	
		SE567	
♦ LM581	AD	AD581	
	LinearTech	AD581	
LM592	Philips	NE592	
	TI	NE592	
		SE592	
		TL592	
LM604	Harris	HA2400	
		HA2404	
		HA2405	
		HA2406	
LM607	AD	ADOP07	
		OP05	
		OP07	
		OP77	
	Harris	HAOP07	
	Lin Int Sys	LSOP07	
	LinearTech	LT1001	
	MicroPwr	MPOP07	
	Raytheon	RC714	
LM6118	Harris	HA5222	
LM6125	Elantec	EL2008	
		EL2009	
LM6161	**AD**	**AD847**	(3530)
	Elantec	EHA2500	
		EHA2502	
		EHA2510	
		EHA2512	
		EHA2600	
		EHA2602	
		EL2006	
	Harris	HA2500	
		HA2502	
		HA2510	
		HA2512	
		HA2541	
		HA2600	
		HA2602	
LM6164	**AD**	**AD848**	(3529)
	Elantec	EHA2520	
		EHA2522	
		EHA2620	
		EHA2622	
	Harris	HA2520	
		HA2522	
		HA2542	
		HA2620	
		HA2622	
		HA5190	
LM6165	**AD**	**AD849**	(3529)
	Harris	HA2540	
LM621	**LSI Comp**	**LS7261**	(3682)
		LS7263	(3682)
LM6218	Harris	HA5222	
LM6261	Elantec	EL2006	
LM627	**Burr-Brown**	**OPA627**	(3457, 3459)
LM628	HP	HCTL100	
LM6361	Burr-Brown	3507	
		3550	
		3551	
	Elantec	EHA2505	
		EHA2515	
		EHA2605	
	Harris	HA2505	
		HA2515	
		HA2541	
		HA2544	(3637)
		HA2605	
LM6364	Elantec	EHA2525	
		EHA2625	
		EL2045	
	Harris	HA5195	
LM6365	Harris	HA2540	
LM637	**Burr-Brown**	**OPA637**	(3457, 3459)
LM668	AD	OP177	
LM675	**Apex**	**PA26**	(3545)
	Burr-Brown	3571	
		3573	
	Harris	CA1305	
		CA3105	
	Linfinity Micro	SG1173	
		SG3173	
LM703	Motorola	MC1350	
LM709	Motorola	MC1709	
	National	μA709	
	TI	μA709	
LM710	Motorola	MC1710	
	National	μA710	
	Samsung	KA710	
LM711	National	μA711	
♦ LM711	Rochester	μA711	
LM723	Fujitsu	MB3752	
	Harris	CA0723	
	Linfinity Micro	SG723	
	Motorola	MC1723	
	Philips	μA723	
	SGS-Thomson	LM723	
		L123	
	TI	μA723	
LM723J	TI	UA723MJ	
LM723J/883	TI	UA723MJB	
LM725	AD	OP06	
		PM725	
	Lin Int Sys	LSOP07	
LM733	Philips	μA733	
♦ LM733	TI	μA733	
LM734	Motorola	LM311	
LM741	AD	AD741	
		OP77	
		PM741	
	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	μA741	
		CA741	
		LM741	
	Hitachi	HA17741	
	Lin Int Sys	LSOP07	
	Linfinity Micro	SG741	
	Motorola	MC1741	
	NJR	NJM741	
	Philips	μA741	
		μA741C	
	Raytheon	RC741	
	Samsung	LM741	
	SGS-Thomson	μA741	
	TI	μA741	
	Toshiba	TA7504	
LM741H/883	TI	UA741MLB	
LM741J	TI	UA741MJG	
LM741J/883	TI	UA741MJGB	
LM747	AD	PM747	
	Harris	CA747	
	Hitachi	HA17747	
	Motorola	MC1747	
	National	μA747	
	Philips	μA747	
		μA747C	
	Raytheon	RC747	
	TI	μA747	
LM747J	TI	UA747MJ	
LM747J/883	TI	UA747MJB	
LM748	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	μA748	
		CA748	
	Motorola	MC1748	
	National	μA748	
	SGS-Thomson	μA748	
		LM748	
	TI	μA748	
		LM748	
LM751J-14/883	TI	UA741MJB	
LM75107	Motorola	MC75107	
LM75108	Motorola	MC75108	
LM75110	Motorola	MC75S110	
LM75207	Motorola	MC75107	
LM75208	Motorola	MC75108	
LM7523	Unitrode	PIC7523	
LM7525	Unitrode	PIC7524	
LM7529	Unitrode	PIC7529	
LM7535	Unitrode	PIC7535	
LM760	National	μA760	
LM78L05	Motorola	MC78L05	
	National	μA78L05	
	Samsung	MC78L05	
	TI	μA78L05	
LM78L08	Motorola	MC78L08	
LM78L09	TI	μA78L09	
LM78L12	Motorola	MC78L12	
	National	μA78L12	
	Samsung	MC78L12	
	TI	μA78L12	
LM78L15	Motorola	MC78L15	
	National	μA78L15	
	Samsung	MC78L15	
	TI	μA78L15	
LM78L18	Motorola	MC78L18	
LM78L24	Motorola	MC78L24	
LM78L62	Samsung	MC78L62	
LM78M05	Motorola	MC78M05	
	National	μA78M05	
	Samsung	MC78M05	
	SGS-Thomson	L78M05	
	TI	μA78M05	
LM78M06	National	LM78M06	
	Samsung	MC78M06	
	SGS-Thomson	L78M06	
	TI	μA78M06	
LM78M08	Motorola	MC78M08	
	Samsung	MC78M08	
	SGS-Thomson	μA78M08	
	TI	μA78M08	
♦ LM78M08	Rochester	78M08	
LM78M12	Motorola	MC78M12	
	National	μA78M12	
	Samsung	MC78M12	
	SGS-Thomson	L78M12	
	TI	μA78M12	
LM78M15	Motorola	MC78M15	
	Samsung	MC78M15	
	SGS-Thomson	L78M15	
	TI	μA78M15	
LM78M24	Motorola	MC78M24	
	Samsung	MC78M24	
	TI	μA78M24	
LM78S40	Motorola	MC78S40	
	Samsung	KA78S40	
LM7805	National	μA7805	
	Samsung	MC7805	
	SemTech	LAS1505	
	SGS-Thomson	μA7805	
		L7805	
	TI	μA7805	
	Unitrode	UC7805	
LM7806	National	μA7806	
	Samsung	MC7806	
	SGS-Thomson	μA7806	
		L7806	
	TI	μA7806	
LM7808	Motorola	MC7808	
	National	μA7808	
	Samsung	MC7808	
	SGS-Thomson	L7808	
	TI	μA7808	
LM7812	Motorola	MC7812	
	National	μA7812	
	Samsung	MC7812	
	SemTech	LAS1512	
	SGS-Thomson	μA7812	
		L7812	
	TI	μA7812	
LM7815	National	μA7815	
	Samsung	MC7815	
	SemTech	LAS1515	
	SGS-Thomson	μA7815	
		L7815	
	TI	μA7815	
	Unitrode	UC7815	
LM7818	Motorola	MC7818	
	National	μA7818	
	Samsung	MC7818	
	SGS-Thomson	L7818	
	TI	μA7818	
♦ LM7820	SGS-Thomson	L7820	
LM7824	National	μA7824	
	Samsung	MC7824	
	SGS-Thomson	L7824	
	TI	μA7824	
LM79L05	Motorola	MC79L05	
	Samsung	MC79L05	
	TI	MC79L05	
LM79L12	Motorola	MC79L12	
	Samsung	MC79L12	
	TI	MC79L12	
LM79L15	Motorola	MC78L15	
		MC79L15	
	Samsung	MC79L15	
	TI	MC79L15	
LM79M05	Motorola	MC79M05	
	National	μA79M05	
	Samsung	MC79M05	
	TI	μA79M05	
♦ LM79M06	Rochester	79M06	
LM79M08	Samsung	MC79M08	
	TI	μA79M08	
LM79M12	Motorola	MC79M12	
	National	μA79M12	
	Samsung	MC79M12	
	TI	μA79M12	
LM79M15	Motorola	MC79M15	
	National	μA79M15	
	Samsung	MC79M15	
	TI	μA79M15	
LM7905	Motorola	MC7905	
	National	μA7905	
	Samsung	MC7905	
	SemTech	LAS1805	
	SGS-Thomson	μA7905	
		L7905	
	TI	μA7905	
	Unitrode	UC7905	
LM7908	Motorola	MC7908	
	Samsung	MC7908	
	TI	μA7908	
LM7912	Motorola	MC7912	
	National	μA7912	
	Samsung	MC7912	
	SemTech	LAS1812	
	SGS-Thomson	μA7915	
		L7912	
	TI	μA7912	
LM7915	Motorola	MC7915	
	National	μA7915	
	Samsung	MC7915	
	SemTech	LAS1815	
	SGS-Thomson	L7915	
	TI	μA7915	
	Unitrode	UC7915	
LM833	**AD**	**SSM2139**	(3529)
	AnalogSys	MA372	
	Motorola	LM833	
	NJR	**NJM2068**	(3704)
	Philips	NE4558	
		NE5532	
	TI	RC4558	
LM837	AD	OP471	
	Motorola	MC33079	
LM883	TI	RC4558	
LP124	AD	OP421	

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Manufacturer Device	Replacement Source	Device	IC Master Page
LP2902	AD	OP421	
LP2937	Micrel	MIC2937A	
LP2940	Micrel	MIC2940A	
LP2941	**Micrel**	**MIC2941A**	**(3686)**
LP2950	ECI Semi	2950	
	LinearTech	LT1117	
	Micrel	LP2950	
		MIC2950	
LP2951	ECI Semi	2951	
	LinearTech	LT1020	
		LT1120	
	Micrel	**MIC2951**	**(3686)**
LP2954	Micrel	LP2954	
		MIC2954	
LP311	TI	LP311	
LP324	AD	OP421	
LP339	TI	LP339	
		TLC339	
LP365	Raytheon	LP365	
LS204	Harris	HA5102	
♦ LX5600	Ideal Semi	ILX5600	
L78S05CT	SemTech	LAS1605	
L78S12CT	SemTech	LAS1612	
L78S15CT	SemTech	LAS1615	
MAD1105	Linfinity Micro	SG5768	
MAD1106	Linfinity Micro	SG5770	
MAD1107	Linfinity Micro	SG5774	
MAD1109	Linfinity Micro	SG6100	
MC1456	AnalogSys	MA362	
MC1508	National	DAC1508	
MC1741	AnalogSys	MA362	
MC1748	AnalogSys	MA362	
MC48F010	SEEQ	48F010	
MC48F512	SEEQ	48F512	
♦ MC5401	**Lansdale**	**ML5401**	**(3668)**
		SL5401	
MC7905	Unitrode	UC7905	
MF10	Exar	XR1010	
	Harris	HF10	
	LinearTech	LTC1060	
	Maxim	MF10	
	MicroLinear	ML2110	
	TI	MF10	
		TLC10	
		TLC20	
MF10A	MicroLinear	ML2110CM	
MF10AC	MicroLinear	ML2110BC	
MF10CC	MicroLinear	ML2110CC	
		ML2110CI	
MF4	TI	MF4	
		TLC04	
		TLC14	
MF4-100	TI	TLC14	
MF4C	Exar	XR1001	
		XR1002	
		XR1003	
		XR1004	
		XR1005	
		XR1006	
		XR1007	
MF4C1008	Exar	XR1008	
MF5	LinearTech	LTC1059	
♦ MJ2841	National	3341	
♦ ML74197	**Lansdale**	**ML74197**	**(3669)**
MM2101	Hughes	H1822	
MM2114	AMD	AM9114	
	Krueger	**2114-200**	**(3663)**
MM21144	**Krueger**	**2114-150**	**(3663)**
		2114-450	**(3663)**
MM2147	**Krueger**	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
MM2148	**Krueger**	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
MM27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
MM2716Q	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
MM2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
MM307	SMC	COM8126	
		COM8146	
MM52164	Hughes	H23C64	
		H23C65	
MM5290	Krueger	4116-120	
		4116-150	
		4116-200	
♦ MM5290	Rochester	4116	
MM5295	Krueger	4116S	
MM54C00	National	MM54C02	
MM54C02	National	MM54C00	
MM54C04	Micrel	MM54C04	
MM54C08	National	MM54C10	
MM54C10	National	MM54C08	
MM54C107	Harris	HS54C138RH	
MM54C14	Micrel	MM54C14	
MM54C150	National	MM54C151	
MM54C151	National	MM54C150	
MM54C154	National	MM54C157	
MM54C157	National	MM54C154	
MM54C160	Micrel	MM54C160	
MM54C161	Micrel	MM54C161	
MM54C162	Micrel	MM54C162	
MM54C163	Micrel	MM54C163	
MM54C164	National	MM54C165	
MM54C165	National	MM54C164	
MM54C173	Micrel	MM54C173	
MM54C174	Micrel	MM54C174	
MM54C175	Micrel	MM54C175	
MM54C192	Micrel	MM54C192	
MM54C193	Micrel	MM54C193	
MM54C195	National	MM54C20	
MM54C20	National	MM54C195	
MM54C200	Micrel	MM54C200	
MM54C221	Micrel	MM54C240	
	National	MM54C240	
MM54C240	Micrel	MM54C240	
	National	MM54C221	
MM54C244	Micrel	MM54C244	
MM54C30	National	MM54C32	
MM54C32	National	MM54C30	
MM54C373	Micrel	MM54C374	
	National	MM54C374	
MM54C374	Micrel	MM54C374	
	National	MM54C373	
MM54C42	Micrel	MM54C42	
MM54C48	National	MM54C73	
MM54C73	National	MM54C48	
MM54C74	National	MM54C76	
MM54C76	National	MM54C74	
MM54C83	Micrel	MM54C85	
	National	MM54C85	
MM54C85	Micrel	MM54C85	
	National	MM54C83	
MM54C86	Micrel	MM54C86	
MM54C89	Micrel	MM54C89	
MM54C90	Micrel	MM54C901	
	National	MM54C901	
MM54C901	Micrel	MM54C901	
	National	MM54C90	
MM54C902	Micrel	MM54C902	
MM54C903	Micrel	MM54C903	
MM54C904	Micrel	MM54C904	
MM54C905	Micrel	MM54C905	
MM54C906	Micrel	MM54C906	
MM54C907	Micrel	MM54C907	
♦ MM54C907	Rochester	54C907	
MM54C909	National	MM54C910	
MM54C910	National	MM54C909	
MM54C914	Micrel	MM54C914	
♦ MM54C914	Rochester	54C914	
MM54C915	National	MM54C922	
MM54C922	National	MM54C915	
MM54C923	National	MM54C93	
MM54C93	National	MM54C923	
MM54C932	Micrel	MM54C941	
	National	MM54C941	
MM54C941	Micrel	MM54C941	
	National	MM54C932	
♦ MM54C941	Rochester	54C941	
MM54C95	National	MM54C989	
♦ MM54C95	Rochester	54C95	
MM54C989	National	MM54C95	
MM54HCT00	GoldStar	GD54HCT00	
	Harris	CD54HCT00	
	Ideal Semi	**54HCTLS86**	**(3643)**
	Motorola	MC54HCT00A	
	Rochester	54HCT00	
MM54HCT03	GoldStar	GD54HCT03	
	Harris	CD54HCT03	
MM54HCT04	GoldStar	GD54HCT04	
	Harris	CD54HCT04	
	Motorola	MC54HCT04A	
	Rochester	54HCT04	
	TI	SN54HCT04	
♦ MM54HCT04	Rochester	54HCT04	
MM54HCT05	GoldStar	GD54HCT05	
	Rochester	54HCT05	
♦ MM54HCT05	Rochester	54HCT05	
MM54HCT08	GoldStar	GD54HCT08	
	Harris	CD54HCT08	
	Motorola	MC54HCT08A	
MM54HCT109			
	Harris	CD54HCT107	
		CD54HCT109	
MM54HCT112			
	Harris	CD54HCT112	
MM54HCT138			
	GEC Plessey	54HCT138SOS	
	GoldStar	GD54HCT138	
	Harris	CD54HCT138	
	Motorola	MC54HCT138A	
	TI	SN54HCT138	
MM54HCT139			
	GEC Plessey	54HCT139SOS	
	GoldStar	GD54HCT139	
	Harris	CD54HCT139	
MM54HCT147			
	GoldStar	GD54HCT147	
	Harris	CD54HCT147	
MM54HCT148			
	GoldStar	GD54HCT148	
MM54HCT149			
	GoldStar	GD54HCT151	
	Harris	CD54HCT151	
	National	MM54HCT151	
MM54HCT151			
	GoldStar	GD54HCT151	
	Harris	CD54HCT151	
	National	MM54HCT149	
MM54HCT153			
	GoldStar	GD54HCT153	
	Harris	CD54HCT153	
MM54HCT155			
	GoldStar	GD54HCT155	
MM54HCT157			
	GoldStar	GD54HCT157	
	Harris	CD54HCT157	
	Motorola	MC54HCT157A	
MM54HCT158			
	GoldStar	GD54HCT158	
	Harris	CD54HCT158	
	Motorola	MC54HCT158A	
MM54HCT164			
	GoldStar	GD54HCT164	
	Harris	CD54HCT164	
MM54HCT166			
	Harris	CD54HCT166	
MM54HCT191			
	GoldStar	GD54HCT191	
	Harris	CD54HCT191	
♦ MM54HCT191			
	Rochester	54HCT191	
MM54HCT192			
	GoldStar	GD54HCT192	
	Harris	CD54HCT192	
MM54HCT193			
	Harris	CD54HCT193	
MM54HCT240			
	GEC Plessey	54HCT239SOS	
		54HCT240SOS	
	Harris	CD54HCT240	
	Motorola	MC54HCT240A	
	Rochester	54HCT240	
	TI	SN54HCT240	
MM54HCT241			
	GEC Plessey	54HCT241SOS	
	GoldStar	GD54HCT241	
	Harris	CD54HCT241	
	Motorola	MC54HCT241A	
	Rochester	54HCT241	
	TI	SN54HCT241	
MM54HCT244			
	GEC Plessey	54HCT244SOS	
	GoldStar	GD54HCT244	
	Harris	CD54HCT244	
	Motorola	MC54HCT244A	
	TI	SN54HCT244	
MM54HCT245			
	GEC Plessey	54HCT245SOS	
	GoldStar	GD54HCT245	
	Harris	CD54HCT245	
	Motorola	MC54HCT245A	
	TI	SN54HCT245	
MM54HCT251			
	Harris	CD54HCT251	
MM54HCT253			
	Harris	CD54HCT253	
MM54HCT257			
	GoldStar	GD54HCT257	
	Harris	CD54HCT257	
MM54HCT258			
	Harris	CD54HCT258	
MM54HCT273			
	GoldStar	GD54HCT273	
	Harris	CD54HCT273	
	Motorola	MC54HCT273A	
	Rochester	54HCT273	
♦ MM54HCT273			
	Rochester	54HCT273	
MM54HCT32	GoldStar	GD54HCT32	
	Harris	CD54HCT32	
	Motorola	MC54HCT32A	
♦ MM54HCT34	Rochester	54HCT34	
MM54HCT373			
	GEC Plessey	54HCT373SOS	
	GoldStar	GD54HCT373	
	Harris	CD54HCT373	
	Motorola	MC54HCT373A	
	TI	SN54HCT373	
MM54HCT374			
	GEC Plessey	54HCT374SOS	
	GoldStar	GD54HCT374	
	Harris	CD54HCT374	
	Motorola	MC54HCT374A	
	TI	SN54HCT374	
MM54HCT521			
	GoldStar	GD54HCT51	
MM54HCT533			
	GEC Plessey	54HCT533SOS	
	GoldStar	GD54HCT533	
	Harris	CD54HCT533	
	Motorola	MC54HCT533A	
	Rochester	54HCT533	
♦ MM54HCT533			
	Rochester	54HCT533	
MM54HCT534			
	GEC Plessey	54HCT534SOS	
	GoldStar	GD54HCT534	
	Harris	CD54HCT534	
	Motorola	MC54HCT534A	
MM54HCT540			
	GEC Plessey	54HCT540SOS	
	Harris	CD54HCT540	
	Motorola	MC54HCT540	
	TI	SN54HCT540	
MM54HCT541			
	GEC Plessey	54HCT541SOS	
	Harris	CD54HCT541	
	Motorola	MC54HCT541	
	TI	SN54HCT541	
MM54HCT640			
	Harris	CD54HCT640	
	Motorola	MC54HCT640A	
	Rochester	54HCT640	
♦ MM54HCT640			
	Rochester	54HCT640	
MM54HCT643			
	Harris	CD54HCT643	
	Rochester	54HCT643	
♦ MM54HCT643			
	Rochester	54HCT643	
MM54HCT688			
	Harris	CD54HCT670	
		CD54HCT688	
MM54HCT74	GoldStar	GD54HCT74	
	Harris	CD54HCT73	
		CD54HCT74	
	Rochester	54HCT74	
♦ MM54HCT74	Rochester	54HCT74	
MM54HCT76	Harris	CD54HCT75	
MM54HC00	GoldStar	GD54HC00	
	Harris	CD54HCT93	
		CD54HC00	
	Motorola	MC54HC00A	
	TI	SN54HC00	
MM54HC02	GoldStar	GD54HC01	
		GD54HC02	
	Harris	CD54HC02	
	Motorola	MC54HC02A	
	TI	SN54HC02	
MM54HC03	GoldStar	GD54HC03	
	Harris	CD54HC03	
	Motorola	MC54HC03A	
	TI	SN54HC03	
MM54HC04	GoldStar	GD54HC04	
	Harris	CD54HC04	
	Motorola	MC54HC04A	
	Rochester	54HC04	
	TI	SN54HC04	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM54HC05	GoldStar	GD54HC05	
	TI	SN54HC05	
MM54HC08	GoldStar	GD54HC08	
	Harris	CD54HC08	
	Motorola	MC54HC08A	
	TI	SN54HC08	
MM54HC10	GoldStar	GD54HC10	
	Harris	CD54HC10	
	Motorola	MC54HC10	
	TI	SN54HC10	
MM54HC107	Harris	CD54HC107	
	Motorola	MC54HC107	
	Rochester	54HC107	
	TI	SN54HC107	
◆ MM54HC107	Rochester	54HC107	
MM54HC109	Harris	CD54HC109	
	Motorola	MC54HC109	
	TI	SN54HC109	
MM54HC11	GoldStar	GD54HC11	
	Harris	CD54HC11	
	Motorola	MC54HC11	
	Rochester	54HC11	
	TI	SN54HC11	
◆ MM54HC11	Rochester	54HC11	
MM54HC112	Harris	CD54HC112	
	Motorola	MC54HC112	
	TI	SN54HC112	
MM54HC113	Motorola	MC54HC113	
	Rochester	54HC113	
	TI	SN54HC113	
◆ MM54HC113	Rochester	54HC113	
MM54HC123	Harris	CD54HC123	
	National	MM54HC123A	
MM54HC123A	Harris	CD54HC123	
	National	MM54HC123	
MM54HC125	GoldStar	GD54HC125	
	Harris	CD54HC125	
	Motorola	MC54HC125A	
	Rochester	54HC125	
	TI	SN54HC125	
MM54HC126	GoldStar	GD54HC126	
	Harris	CD54HC126	
	Motorola	MC54HC126A	
	Rochester	54HC126	
	TI	SN54HC126	
MM54HC132	GoldStar	GD54HC132	
	Harris	CD54HC132	
	Motorola	MC54HC132A	
	TI	SN54HC132	
MM54HC133	Motorola	MC54HC133	
	Rochester	54HC133	
	TI	SN54HC133	
◆ MM54HC133	Rochester	54HC133	
MM54HC137	GoldStar	GD54HC137	
	Harris	CD54HC137	
	Motorola	MC54HC137	
	TI	SN54HC137	
MM54HC138	GoldStar	GD54HC138	
	Harris	CD54HC138	
	Motorola	MC54HC138A	
	TI	SN54HC138	
MM54HC139	GoldStar	GD54HC139	
	Harris	CD54HC139	
	Motorola	MC54HC139A	
	Rochester	54HC139	
	TI	SN54HC139	
MM54HC14	Harris	CD54HC14	
	Motorola	MC54HC14A	
	TI	SN54HC14	
MM54HC147	GoldStar	GD54HC147	
	Harris	CD54HC147	
	Motorola	MC54HC147	
MM54HC148	GoldStar	GD54HC148	
	TI	SN54HC148	
MM54HC149	GoldStar	GD54HC151	
	Harris	CD54HC151	
	Motorola	MC54HC151	
	National	MM54HC151	
	TI	SN54HC151	
MM54HC151	GoldStar	GD54HC151	
	Harris	CD54HC151	
	Motorola	MC54HC151	
	National	MM54HC149	
	TI	SN54HC151	
MM54HC153	GoldStar	GD54HC153	
	Harris	CD54HC153	
	Motorola	MC54HC153	
	Rochester	54HC153	
	TI	SN54HC153	
◆ MM54HC153	Rochester	54HC153	
MM54HC154	GoldStar	GD54HC154	
	Harris	CD54HC154	
	Motorola	MC54HC154	
	Rochester	54HC154	
MM54HC155	GoldStar	GD54HC155	
MM54HC157	GoldStar	GD54HC157	
	Harris	CD54HC157	
	Motorola	MC54HC157A	
	TI	SN54HC157	
MM54HC158	GoldStar	GD54HC158	
	Harris	CD54HC158	
	Rochester	54HC158	
	TI	SN54HC158	
◆ MM54HC158	Rochester	54HC158	
MM54HC160	GoldStar	GD54HC160	
	Harris	CD54HC160	
	Motorola	MC54HC160	
	Rochester	54HC160	
	TI	SN54HC160	
MM54HC161	GoldStar	GD54HC161	
	Harris	CD54HC161	
	Motorola	MC54HC161A	
	TI	SN54HC161	
MM54HC162	GoldStar	GD54HC162	
	Harris	CD54HC162	
	Motorola	MC54HC162	
	Rochester	54HC162	
◆ MM54HC162	Rochester	54HC162	
MM54HC163	GoldStar	GD54HC163	
	Harris	CD54HC163	
	Motorola	MC54HC163A	
	TI	SN54HC163	
MM54HC164	GoldStar	GD54HC164	
	Harris	CD54HC164	
	Motorola	MC54HC164	
	Rochester	54HC164	
	TI	SN54HC164	
MM54HC165	GoldStar	GD54HC165	
	Harris	CD54HC165	
	Motorola	MC54HC165	
	Rochester	54HC165	
	TI	SN54HC165	
MM54HC166	Harris	CD54HC166	
	TI	SN54HC166	
MM54HC173	GoldStar	GD54HC173	
	Harris	CD54HC173	
	Motorola	MC54HC173	
	Rochester	54HC173	
	TI	SN54HC173	
◆ MM54HC173	Rochester	54HC173	
MM54HC174	GoldStar	GD54HC174	
	Harris	CD54HC174	
	Motorola	MC54HC174A	
	Rochester	54HC174	
	TI	SN54HC174	
MM54HC175	GoldStar	GD54HC175	
	Harris	CD54HC175	
	Motorola	MC54HC175	
	Rochester	54HC175	
	TI	SN54HC175	
MM54HC181	Harris	CD54HC181	
	Rochester	54HC181	
◆ MM54HC181	Rochester	54HC181	
MM54HC182	Harris	CD54HC182	
MM54HC190	GoldStar	GD54HC190	
	Harris	CD54HC190	
	TI	SN54HC190	
MM54HC191	GoldStar	GD54HC191	
	Harris	CD54HC191	
	TI	SN54HC191	
MM54HC192	GoldStar	GD54HC192	
	Harris	CD54HC192	
	Rochester	54HC192	
	TI	SN54HC192	
MM54HC193	Harris	CD54HC193	
	Rochester	54HC193	
	TI	SN54HC193	
MM54HC194	Harris	CD54HC194	
	Motorola	MC54HC194	
	Rochester	54HC194	
	TI	SN54HC194	
◆ MM54HC194	Rochester	54HC194	
MM54HC195	Harris	CD54HC195	
	Motorola	MC54HC195	
	TI	SN54HC195	
MM54HC20	GoldStar	GD54HC20	
	Harris	CD54HC20	
	Motorola	MC54HC20	
	TI	SN54HC20	
MM54HC221A	GoldStar	GD54HC221	
	Harris	CD54HC221	
MM54HC237	Harris	CD54HC237	
	Motorola	MC54HC237	
	Rochester	54HC237	
	TI	SN54HC237	
◆ MM54HC237	Rochester	54HC237	
MM54HC240	Harris	CD54HC240	
	Motorola	MC54HC240A	
	Rochester	54HC240	
	TI	SN54HC240	
MM54HC241	GoldStar	GD54HC241	
	Harris	CD54HC241	
	Motorola	MC54HC241A	
	Rochester	54HC241	
	TI	SN54HC241	
◆ MM54HC241	Rochester	54HC241	
MM54HC242	Harris	CD54HC242	
	Motorola	MC54HC242	
	Rochester	54HC242	
	TI	SN54HC242	
◆ MM54HC242	Rochester	54HC242	
MM54HC243	Harris	CD54HC243	
	Rochester	54HC243	
	TI	SN54HC243	
◆ MM54HC243	Rochester	54HC243	
MM54HC244	GoldStar	GD54HC244	
	Harris	CD54HC244	
	Motorola	MC54HC244A	
	TI	SN54HC244	
MM54HC245	GoldStar	GD54HC245	
	Harris	CD54HC245	
	Motorola	MC54HC245A	
	National	MM54HC245A	
	TI	SN54HC245	
MM54HC245A	GoldStar	GD54HC245	
	Harris	CD54HC245	
	Motorola	MC54HC245A	
	National	MM54HC245	
	TI	SN54HC245	
MM54HC251	Harris	CD54HC251	
	Motorola	MC54HC251	
	Rochester	54HC251	
	TI	SN54HC251	
◆ MM54HC251	Rochester	54HC251	
MM54HC253	Harris	CD54HC253	
	Motorola	MC54HC253	
	Rochester	54HC253	
	TI	SN54HC253	
◆ MM54HC253	Rochester	54HC253	
MM54HC257	GoldStar	GD54HC257	
	Harris	CD54HC257	
	Motorola	MC54HC257	
	Rochester	54HC257	
	TI	SN54HC257	
MM54HC258	Harris	CD54HC258	
	TI	SN54HC258	
MM54HC259	Harris	CD54HC259	
	Motorola	MC54HC259	
	TI	SN54HC259	
MM54HC266	Motorola	MC54HC266	
	Rochester	54HC266	
	TI	SN54HC266	
◆ MM54HC266	Rochester	54HC266	
MM54HC27	GoldStar	GD54HC27	
	Harris	CD54HC27	
	Motorola	MC54HC27	
	TI	SN54HC27	
MM54HC273	GoldStar	GD54HC273	
	Harris	CD54HC273	
	Motorola	MC54HC273A	
	TI	SN54HC273	
MM54HC280	GoldStar	GD54HC280	
	Harris	CD54HC280	
	Motorola	MC54HC280	
	TI	SN54HC280	
MM54HC283	Harris	CD54HC283	
MM54HC298	Harris	CD54HC297	
MM54HC299	GoldStar	GD54HC299	
	Harris	CD54HC299	
	Motorola	MC54HC299	
MM54HC30	GoldStar	GD54HC30	
	Harris	CD54HC30	
	Motorola	MC54HC30	
	TI	SN54HC30	
MM54HC32	GoldStar	GD54HC32	
	Harris	CD54HC32	
	Motorola	MC54HC32A	
	TI	SN54HC32	
MM54HC34	GoldStar	GD54HC34	
MM54HC354	Harris	CD54HC354	
	Motorola	MC54HC354	
	Rochester	54HC354	
◆ MM54HC354	Rochester	54HC354	
MM54HC356	Harris	CD54HC356	
MM54HC365	GoldStar	GD54HC365	
	Harris	CD54HC365	
	Motorola	MC54HC365	
	TI	SN54HC365	
MM54HC366	GoldStar	GD54HC366	
	Harris	CD54HC366	
	Motorola	MC54HC366	
	Rochester	54HC366	
	TI	SN54HC366	
◆ MM54HC366	Rochester	54HC366	
MM54HC367	GoldStar	GD54HC367	
	Harris	CD54HC367	
	Motorola	MC54HC367	
	TI	SN54HC367	
MM54HC368	GoldStar	GD54HC368	
	Harris	CD54HC368	
	Motorola	MC54HC368	
	Rochester	54HC368	
	TI	SN54HC368	
◆ MM54HC368	Rochester	54HC368	
MM54HC373	GoldStar	GD54HC373	
	Harris	CD54HC373	
	Motorola	MC54HC373A	
	TI	SN54HC373	
MM54HC374	GoldStar	GD54HC374	
	Harris	CD54HC374	
	Motorola	MC54HC374A	
	TI	SN54HC374	
MM54HC390	Harris	CD54HC390	
	Motorola	MC54HC390	
	Rochester	54HC390	
	TI	SN54HC390	
MM54HC393	GoldStar	GD54HC393	
	Harris	CD54HC393	
	Motorola	MC54HC393	
	Rochester	54HC393	
	TI	SN54HC393	
MM54HC4002	Harris	CD54HC4002	
	Motorola	MC54HC4002	
	Rochester	54HC4002	
	TI	SN54HC4002	
◆ MM54HC4002	Rochester	54HC4002	
MM54HC4016	Harris	CD54HC4015 CD54HC4016	
	Motorola	MC54HC4016	
	Rochester	54HC4016	
	TI	SN54HC4016	
◆ MM54HC4016	Rochester	54HC4016	
MM54HC4017	Harris	CD54HC4017	
	Motorola	MC54HC4017	
MM54HC4020	Harris	CD54HC4020	
	Motorola	MC54HC4020	
	Rochester	54HC4020	
	TI	SN54HC4020	
MM54HC4040	Harris	CD54HC4040	
	Motorola	MC54HC4040	
	TI	SN54HC4040	
MM54HC4046	Harris	CD54HC4046A	
	Motorola	MC54HC4046A	
	Rochester	54HC4046	
◆ MM54HC4046	Rochester	54HC4046	
MM54HC4049	Harris	CD54HC4049	
	Motorola	MC54HC4049	
MM54HC4050	Harris	CD54HC4050	
	Motorola	MC54HC4050	
MM54HC4051	Harris	CD54HC4051	
	Motorola	MC54HC4051	
MM54HC4052	Harris	CD54HC4052	
	Motorola	MC54HC4052	
MM54HC4053	Harris	CD54HC4053	
	Motorola	MC54HC4053	
MM54HC4060	Harris	CD54HC4059 CD54HC4060	
	Motorola	MC54HC4060	
	Rochester	54HC4060	
◆ MM54HC4060	Rochester	54HC4060	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM54HC4066	Harris	CD54HC4066	
	Motorola	MC54HC4066	
	Rochester	54HC4066	
	TI	SN54HC4066	
		TLC4066	
♦ MM54HC4066	Rochester	54HC4066	
MM54HC4075	Harris	CD54HC4067	
		CD54HC4075	
	Motorola	MC54HC4075	
	Rochester	54HC4075	
	TI	SN54HC4075	
♦ MM54HC4075	Rochester	54HC4075	
MM54HC4078	Motorola	MC54HC4078	
	TI	SN54HC4078A	
MM54HC42	GoldStar	GD54HC42	
	Harris	CD54HC4094	
		CD54HC42	
	Motorola	MC54HC42	
	TI	SN54HC42	
MM54HC423A	Harris	CD54HC423	
MM54HC4316	Harris	CD54HC4316	
	Motorola	MC54HC4316	
	Rochester	54HC4316	
MM54HC4316	Rochester	54HC4316	
MM54HC4511	Harris	CD54HC4511	
	Motorola	MC54HC4511	
MM54HC4514	Harris	CD54HC4514	
	Motorola	MC54HC4514	
MM54HC4514	Rochester	54HC4514	
MM54HC4538	Harris	CD54HC4520	
		CD54HC4538	
	Motorola	MC54HC4538A	
MM54HC4543	Harris	CD54HC4543	
MM54HC4543	Rochester	54HC4543	
MM54HC51	GoldStar	GD54HC51	
	Motorola	MC54HC51	
	TI	SN54HC51	
MM54HC51	Rochester	54HC51	
MM54HC521	GoldStar	GD54HC533	
	Harris	CD54HC533	
	Motorola	MC54HC533A	
	National	MM54HC533	
	TI	SN54HC533	
MM54HC533	GoldStar	GD54HC533	
	Harris	CD54HC533	
	Motorola	MC54HC533A	
	National	MM54HC521	
	TI	SN54HC533	
MM54HC533	Rochester	54HC533	
MM54HC534	GoldStar	GD54HC534	
	Harris	CD54HC534	
	Motorola	MC54HC534A	
	TI	SN54HC534	
MM54HC534	Rochester	54HC534	
MM54HC540	Harris	CD54HC540	
	Motorola	MC54HC540	
	TI	SN54HC540	
MM54HC541	Harris	CD54HC541	
	Motorola	MC54HC541	
	TI	SN54HC541	
MM54HC563	Harris	CD54HC563	
	Motorola	MC54HC563	
	Rochester	54HC563	
	TI	SN54HC563	
MM54HC564	Harris	CD54HC564	
	Motorola	MC54HC564	
	TI	SN54HC564	
MM54HC573	Harris	CD54HC573	
	Motorola	MC54HC573A	
	TI	SN54HC573	
MM54HC574	Harris	CD54HC574	
	Motorola	MC54HC574A	
	TI	SN54HC574	
MM54HC58	GoldStar	GD54HC58	
	Motorola	MC54HC58	
MM54HC58	Rochester	54HC58	
MM54HC589	Harris	CD54HC583	
	Motorola	MC54HC589	
MM54HC595	Motorola	MC54HC595A	
	TI	SN54HC595	
MM54HC597	Harris	CD54HC597	
	Motorola	MC54HC597	
♦ MM54HC597	Rochester	54HC597	
MM54HC620	Rochester	54HC620	
	TI	SN54HC620	
♦ MM54HC620	Rochester	54HC620	
MM54HC623	TI	SN54HC623	
MM54HC640	Harris	CD54HC640	
	Motorola	MC54HC640A	
	Rochester	54HC640	
	TI	SN54HC640	
MM54HC643	Harris	CD54HC643	
	TI	SN54HC643	
♦ MM54HC643	Rochester	54HC643	
MM54HC646	GoldStar	GD54HC646	
	Harris	CD54HC646	
	Motorola	MC54HC646	
	Rochester	54HC646	
♦ MM54HC646	Rochester	54HC646	
MM54HC648	GoldStar	GD54HC648	
	Harris	CD54HC648	
	Motorola	MC54HC648	
MM54HC688	Harris	CD54HC688	
	Motorola	MC54HC688	
	TI	SN54HC688	
MM54HC7266	Harris	CD54HC7266	
	Motorola	MC54HC7266	
MM54HC73	Harris	CD54HC73	
	Motorola	MC54HC73	
	Rochester	54HC73	
MM54HC74	GoldStar	GD54HC74	
	Harris	CD54HC74	
	Motorola	MC54HC74A	
	Rochester	54HC74	
	TI	SN54HC74	
MM54HC75	Harris	CD54HC75	
	Motorola	MC54HC75	
	Rochester	54HC75	
	TI	SN54HC75	
MM54HC76	Motorola	MC54HC76	
	Rochester	54HC76	
MM54HC85	Harris	CD54HC85	
	Motorola	MC54HC85	
	Rochester	54HC85	
	TI	SN54HC85A	
MM54HC86	GoldStar	GD54HC86	
	Harris	CD54HC86	
	Motorola	MC54HC86	
	Rochester	54HC86	
	TI	SN54HC86	
MM54H4016	TI	TLC4016	
MM5450	Micrel	MM5450	
MM5451	Micrel	MM5451	
MM5740	SMC	KR9600	
		KR9601	
		KR9602	
MM58438	Hughes	H0438	
MM6116	Harris	HM65162	
MM6164	Harris	HM65642	
MM6504	Harris	HM6504	
MM6508	Harris	HM6508	
MM6516	Harris	HM6516	
MM6518	Harris	HM6518	
MM6551	Harris	HM6551	
MM74C00	National	MM74C02	
MM74C02	National	MM74C00	
MM74C04	National	MM74C08	
MM74C08	National	MM74C04	
MM74C10	National	MM74C107	
MM74C107	National	MM74C10	
MM74C14	GoldStar	GD40014	
	National	MM74C151	
MM74C151	National	MM74C14	
MM74C154	National	MM74C157	
MM74C157	National	MM74C154	
MM74C160	GoldStar	GD40160	
	National	MM74C161	
MM74C161	GoldStar	GD40161	
	National	MM74C160	
MM74C162	National	MM74C163	
MM74C163	GoldStar	GD40163	
	National	MM74C162	
MM74C164	National	MM74C165	
MM74C165	National	MM74C164	
MM74C173	National	MM74C174	
MM74C174	GoldStar	GD40174	
	National	MM74C173	
MM74C175	GoldStar	GD40175	
	National	MM74C192	
MM74C192	GoldStar	GD40192	
	National	MM74C175	
♦ MM74C192	Rochester	74C192	
MM74C193	GoldStar	GD40139	
	National	MM74C195	
MM74C195	National	MM74C193	
MM74C20	National	MM74C200	
MM74C200	National	MM74C20	
MM74C221	National	MM74C240	
MM74C240	National	MM74C221	
MM74C244	National	CGS74C2525	
MM74C30	National	CGS74C2526	
MM74C32	National	K74C372	
MM74C373	National	MM74C374	
MM74C374	National	MM74C373	
MM74C42	National	MM74C48	
♦ MM74C42	Rochester	74C42	
MM74C48	National	MM74C42	
MM74C73	National	MM74C74	
MM74C74	National	MM74C73	
MM74C76	National	MM74C83	
MM74C83	National	MM74C76	
♦ MM74C83	Rochester	74C83	
MM74C85	GoldStar	GD40085	
	National	MM74C86	
MM74C86	National	MM74C85	
MM74C89	GoldStar	GD4725	
	National	MM74C90	
MM74C90	National	MM74C89	
MM74C901	National	MM74C902	
MM74C902	National	MM74C901	
♦ MM74C902	Rochester	74C902	
MM74C903	National	MM74C904	
MM74C904	National	MM74C903	
MM74C905	National	MM74C906	
MM74C906	National	MM74C905	
MM74C907	National	MM74C908	
♦ MM74C907	Rochester	74C907	
MM74C908	National	MM74C907	
MM74C909	National	MM74C910	
MM74C910	National	MM74C909	
MM74C911	National	MM74C912	
MM74C912	National	MM74C911	
MM74C914	National	MM74C915	
♦ MM74C914	Rochester	74C914	
MM74C915	National	MM74C914	
MM74C917	National	MM74C918	
MM74C918	National	MM74C917	
MM74C920	GoldStar	GD4721	
	Harris	HM6551	
	Hughes	H1822	
MM74C922	National	MM74C923	
MM74C923	National	MM74C922	
MM74C925	National	MM74C926	
MM74C926	National	MM74C925	
MM74C927	National	MM74C928	
MM74C928	National	MM74C927	
MM74C929	GoldStar	GD4736	
	Harris	HM6508	
MM74C93	National	MM74C932	
MM74C930	Harris	HM6518	
MM74C932	National	MM74C93	
MM74C941	Maxim	MM74C945	
	National	MM74C945	
♦ MM74C941	Rochester	74C941	
MM74C945	Maxim	MM74C945	
	National	MM74C941	
MM74C946	Maxim	MM74C947	
	National	MM74C947	
MM74C947	Maxim	MM74C947	
	National	MM74C946	
MM74C95	National	MM74C956	
♦ MM74C95	Rochester	74C95	
MM74C956	National	MM74C95	
MM74C989	Mitsubishi	M74F00	
	Motorola	MC74F00	
	National	74F00	
	Philips	74F00	
	TI	SN74F00	
MM74HCT00	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	Philips	74HCT00	
	Rochester	74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
MM74HCT03	GoldStar	GD74HCT03	
	Harris	CD74HCT03	
	Philips	74HCT03	
MM74HCT04	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	Philips	74HCT04	
	Rochester	74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
MM74HCT05	Rochester	74HCT05	
MM74HCT08	GoldStar	GD74HCT08	
	Harris	CD74HCT08	
	Motorola	MC74HCT08A	
	Philips	74HCT08	
	TI	SN74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
MM74HCT109	Harris	CD74HCT109	
	Philips	74HCT109	
MM74HCT112	Harris	CD74HCT112	
	Philips	74HCT112	
MM74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	Philips	74HCT138	
	Rochester	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
MM74HCT139	GEC Plessey	MV74HCT139	
		74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	Philips	74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	**(3836)**
MM74HCT147	GoldStar	GD74HCT147	
	Harris	CD74HCT147	
	Philips	74HCT147	
MM74HCT148	GoldStar	GD74HCT148	
MM74HCT149	GoldStar	GD74HCT151	
	Harris	CD74HCT151	
	National	MM74HCT151	
	Philips	74HCT151	
MM74HCT151	GoldStar	GD74HCT151	
	Harris	CD74HCT151	
	National	MM74HCT149	
	Philips	74HCT151	
MM74HCT153	GoldStar	GD74HCT153	
	Harris	CD74HCT153	
	Philips	74HCT153	
MM74HCT155	GoldStar	GD74HCT155	
MM74HCT157	GoldStar	GD74HCT157	
	Harris	CD74HCT157	
	Motorola	MC74HCT157A	
	Philips	74HCT157	
	SGS-Thomson	M74HCT157	
	Toshiba	**TC74HCT157A**	**(3836)**
MM74HCT158	GoldStar	GD74HCT158	
	Harris	CD74HCT158	
	Motorola	MC74HCT158A	
	Philips	74HCT158	
	SGS-Thomson	M74HCT158	
	Toshiba	**TC74HCT158A**	**(3836)**
MM74HCT164	Harris	CD74HCT164	
	Philips	74HCT164	
	SGS-Thomson	M74HCT164	
	Toshiba	**TC74HCT164A**	**(3836)**

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HCT166	Harris	CD74HCT166	
	Philips	74HCT166	
MM74HCT191	GoldStar	GD74HCT191	
	Harris	CD74HCT191	
	Philips	74HCT191	
	Rochester	74HCT191	
MM74HCT192	GoldStar	GD74HCT192	
	Harris	CD74HCT192	
	Philips	74HCT192	
MM74HCT193	Harris	CD74HCT193	
	Philips	74HCT193	
MM74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	Philips	74HCT240	
	Rochester	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
MM74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	Philips	74HCT241	
	Rochester	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	(3836)
MM74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	(3836)
MM74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	(3836)
MM74HCT251	Harris	CD74HCT251	
	Philips	74HCT251	
MM74HCT253	Harris	CD74HCT253	
MM74HCT257	GoldStar	GD74HCT257	
	Harris	CD74HCT257	
	Philips	74HCT257	
	SGS-Thomson	M74HCT257	
	Toshiba	**TC74HCT257A**	(3836)
MM74HCT258	Harris	CD74HCT258	
	Philips	74HCT258	
	SGS-Thomson	M74HCT258	
	Toshiba	**TC74HCT258A**	(3836)
MM74HCT273	GoldStar	GD74HCT273	
	Harris	CD74HCT273	
	Mitsubishi	M74HCT273-1	
	Motorola	MC74HCT273A	
	Philips	74HCT273	
	Rochester	74HCT273	
	Toshiba	**TC74HCT273A**	(3836)
MM74HCT32	GoldStar	GD74HCT32	
	Harris	CD74HCT32	
	Motorola	MC74HCT32A	
	Philips	74HCT32	
	TI	SN74HCT32	
	Toshiba	**TC74HCT32A**	(3836)
MM74HCT34	GoldStar	GD74HCT34	
	Rochester	74HCT34	
MM74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	(3836)
MM74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	(3836)
MM74HCT521	GoldStar	GD74HCT51	
MM74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	Philips	74HCT533	
	Rochester	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	(3836)
MM74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	(3836)
MM74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	(3836)
MM74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
MM74HCT541 (Cont'd)	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	(3836)
MM74HCT564	GEC Plessey	MV74HCT564	
		74HCT564	
	Harris	CD74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	(3836)
MM74HCT573	GEC Plessey	MV74HCT573	
		74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
MM74HCT574	GEC Plessey	MV74HCT574	
		74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	(3836)
MM74HCT620	Rochester	74HCT620	
MM74HCT640	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	Philips	74HCT640	
	Rochester	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	(3836)
	Universal	US74HCT640	
MM74HCT643	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	Philips	74HCT643	
	Rochester	74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
MM74HCT688	Harris	CD74HCT688	
	Philips	74HCT688	
	SGS-Thomson	M74HCT688	
	Toshiba	**TC74HCT688A**	(3836)
MM74HCT74	GoldStar	GD74HCT74	
	Harris	CD74HCT74	
	Motorola	MC74HCT74A	
	Philips	74HCT74	
	Rochester	74HCT74	
	SGS-Thomson	M74HCT74	
	TI	SN74HCT74	
	Toshiba	**TC74HCT74A**	(3836)
MM74HCT76	Philips	74HCT7597	
MM74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	(3836)
MM74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	(3836)
MM74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
MM74HC03 (Cont'd)	Motorola	MC74HC03A	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	(3836)
MM74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	Philips	74HC04	
	Rochester	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	(3836)
MM74HC05	GoldStar	GD74HC05	
	TI	SN74HC05	
	Toshiba	**TC74HC05A**	(3836)
MM74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	(3836)
MM74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	(3836)
MM74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	Philips	74HC107	
	Rochester	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	(3836)
MM74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	(3836)
MM74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	Philips	74HC11	
	Rochester	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	(3836)
MM74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	(3836)
MM74HC113	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	Rochester	74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	(3836)
MM74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	
	Toshiba	TC74HC123	
		TC74HC123A	
MM74HC123A	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123	
	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC123A			(Cont'd)
	Toshiba	TC74HC123	
		TC74HC123A	
MM74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	Philips	74HC125	
	Rochester	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
MM74HC126	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	Philips	74HC126	
	Rochester	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
MM74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
MM74HC133	Motorola	MC74HC133	
	Rochester	74HC133	
	SGS-Thomson	M74HC133	
	TI	SN74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
MM74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
MM74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
MM74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	Philips	74HC139	
	Rochester	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
MM74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
MM74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
MM74HC148	GoldStar	GD74HC148	
	SGS-Thomson	M74HC148	
	TI	SN74HC148	
	Toshiba	**TC74HC148A**	**(3836)**
MM74HC149	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC151	
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
MM74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
MM74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	Philips	74HC153	
	Rochester	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
MM74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
MM74HC155	GoldStar	GD74HC155	
	Mitsubishi	M74HC155	
	SGS-Thomson	M74HC155	
	Toshiba	**TC74HC155A**	**(3836)**
MM74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
MM74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
MM74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
MM74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
MM74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
MM74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
MM74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
MM74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
MM74HC166	Harris	CD74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
MM74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	Philips	74HC173	
	Rochester	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
MM74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	Philips	74HC174	
	Rochester	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
MM74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	Philips	74HC175	
	Rochester	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
MM74HC181	Harris	CD74HC181	
	Philips	74HC181	
	Rochester	74HC181	
	SGS-Thomson	M74HC181	
	Toshiba	**TC74HC181A**	**(3836)**
MM74HC182	Harris	CD74HC182	
	Philips	74HC182	
	SGS-Thomson	M74HC182	
	Toshiba	**TC74HC182A**	**(3836)**
MM74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
MM74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
MM74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	Philips	74HC192	
	Rochester	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
MM74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	Philips	74HC193	
	Rochester	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
MM74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	Philips	74HC194	
	Rochester	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
MM74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
MM74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
MM74HC221A	GoldStar	GD74HC221	
	Harris	CD74HC221	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
	Toshiba	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
MM74HC237	Harris	CD74HC22106	
		CD74HC237	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	Philips	74HC237	
	Rochester	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC238	Harris	CD74HC238	
	Philips	74HC238	
	SGS-Thomson	M74HC238	
	TI	SN74HC238	
	Toshiba	**TC74HC238A**	**(3836)**
MM74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240 M74HC240-1	
	Motorola	MC74HC240A	
	Philips	74HC240	
	Rochester	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
MM74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	Philips	74HC241	
	Rochester	74HC241	
	SGS-Thomson	M74HC241 M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
MM74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	Philips	74HC242	
	Rochester	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
MM74HC243	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	Philips	74HC243	
	Rochester	74HC243	
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	**(3836)**
MM74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244 M74HC244-1	
	Motorola	MC74HC244A	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
MM74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245 M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
MM74HC245A	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245 M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
MM74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	Philips	74HC251	
	Rochester	74HC251	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC251			(Cont'd)
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
MM74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	Rochester	74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
MM74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	Philips	74HC257	
	Rochester	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
MM74HC258	Harris	CD74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
MM74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
MM74HC266	Mitsubishi	M74HC266 M74HC266A	
	Rochester	74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	**(3836)**
MM74HC266A	Rochester	74HC266A	
MM74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
MM74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273 M74HC273-1	
	Motorola	MC74HC273A	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
MM74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
MM74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	**(3836)**
MM74HC298	Motorola	MC74HC298	
	SGS-Thomson	M74HC298	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC298			(Cont'd)
	TI	SN74HC298	
	Toshiba	**TC74HC298A**	**(3836)**
MM74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
MM74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
MM74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
MM74HC323	SGS-Thomson	M74HC323	
	Toshiba	**TC74HC323A**	**(3836)**
MM74HC34	GoldStar	GD74HC34	
MM74HC354	Harris	CD74HC354	
	Motorola	MC74HC354	
	Philips	74HC354	
	Rochester	74HC354	
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	**(3836)**
MM74HC356	Harris	CD74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	**(3836)**
MM74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
MM74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	Philips	74HC366	
	Rochester	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
MM74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
MM74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	Philips	74HC368	
	Rochester	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
MM74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC373			(Cont'd)
	Motorola	MC74HC373A	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
MM74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
MM74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	Philips	74HC390	
	Rochester	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
MM74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	Philips	74HC393	
	Rochester	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
MM74HC4002			
	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	Philips	74HC4002	
	Rochester	74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	**(3836)**
MM74HC4016			
	Harris	CD74HC4016	
	Motorola	MC74HC4016	
	Philips	74HC4016	
	Rochester	74HC4016	
	TI	TLC4016	
	Toshiba	**TC74HC4016A**	**(3836)**
MM74HC4017			
	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	**(3836)**
MM74HC4020			
	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	Philips	74HC4020	
	Rochester	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
MM74HC4024			
	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836**
MM74HC4040			
	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836**

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC4046	Harris	CD74HC4046A	
	Motorola	MC74HC4046A	
	Philips	74HC4046A	
	Rochester	74HC4046	
MM74HC4049	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
MM74HC4050	Harris	CD74HC4050	
	Mitsubishi	M74HC4050B	
	Motorola	MC74HC4050	
	Philips	74HC4050	
	SGS-Thomson	M74HC4050	
	Toshiba	**TC74HC4050A**	**(3836)**
MM74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
MM74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
MM74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
MM74HC4060	Harris	CD74HC4060	
	Motorola	MC74HC4060	
	Philips	74HC4060	
	Rochester	74HC4060	
	SGS-Thomson	M74HC4060	
	TI	SN74HC4060	
	Toshiba	**TC74HC4060A**	**(3836)**
MM74HC4066	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	Philips	74HC4066	
	Rochester	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
		TLC4066	
	Toshiba	**TC74HC4066A**	**(3836)**
MM74HC4075	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	Philips	74HC4075	
	Rochester	74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	**(3836)**
MM74HC4078	Mitsubishi	M74HC4078	
	Motorola	MC74HC4078	
	SGS-Thomson	M74HC4078	
	TI	SN74HC4078A	
	Toshiba	**TC74HC4078A**	**(3836)**
			(Continued)
MM74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
MM74HC423A	Harris	CD74HC423	
	Philips	74HC423	
	SGS-Thomson	M74HC423	
		M74HC423A	
	Toshiba	TC74HC423	
		TC74HC423A	**(3836)**
MM74HC4316	Harris	CD74HC4316	
	Motorola	MC74HC4316	
	Philips	74HC4316	
	Rochester	74HC4316	
	SGS-Thomson	M74HC4316	
	Toshiba	**TC74HC4316A**	**(3836)**
MM74HC4511	Harris	CD74HC4511	
	Motorola	MC74HC4511	
	Philips	74HC4511	
	SGS-Thomson	M74HC4511	
	Toshiba	**TC74HC4511A**	**(3836)**
MM74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	Philips	74HC4514	
	Rochester	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
MM74HC4518	Harris	CD74HC4518	
	Philips	74HC4518	
	SGS-Thomson	M74HC4518	
	Toshiba	**TC74HC4518A**	**(3836)**
MM74HC4520	Harris	CD74HC4520	
	Philips	74HC4520	
	Toshiba	**TC74HC4520A**	**(3836)**
MM74HC4538	Harris	CD74HC4538	
	Motorola	MC74HC4538A	
	Philips	74HC4538	
	SGS-Thomson	M74HC4538	
	Toshiba	**TC74HC4538A**	**(3836)**
MM74HC4543	Harris	CD74HC4543	
	Philips	74HC4543	
	Rochester	74HC4543	
	SGS-Thomson	M74HC4543	
	Toshiba	TC74HC4543A	
MM74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	Rochester	74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
MM74HC521	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
MM74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
			(Continued)
MM74HC533			(Cont'd)
	Mitsubishi	M74HC533	
		M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521	
	Philips	74HC533	
	Rochester	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
MM74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
	Motorola	MC74HC534A	
	Philips	74HC534	
	Rochester	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
MM74HC540	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
	Toshiba	TC74HC5353A	
		TC74HC540A	**(3836)**
MM74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
MM74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	Philips	74HC5555	
		74HC563	
	Rochester	74HC563	
	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
MM74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
MM74HC573	Harris	CD74HC573	
	Motorola	MC74HC573A	
	Philips	74HC573	
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
MM74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
MM74HC58	GoldStar	GD74HC58	
	Motorola	MC74HC58	
	Rochester	74HC58	
MM74HC589	Motorola	MC74HC589	
MM74HC590	SGS-Thomson	M74HC590	
	TI	SN74HC590A	
	Toshiba	**TC74HC590A**	**(3836)**
MM74HC592	SGS-Thomson	M74HC592	
	Toshiba	**TC74HC592A**	**(3836)**
MM74HC593	SGS-Thomson	M74HC593	
	Toshiba	**TC74HC593A**	**(3836)**
MM74HC594	TI	SN74HC594	
MM74HC595	Mitsubishi	M74HC595	
	Motorola	MC74HC595A	
	SGS-Thomson	M74HC595	
	TI	SN74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
MM74HC597	Harris	CD74HC597	
	Motorola	MC74HC597	
	Philips	74HC597	
	Rochester	74HC597	
	SGS-Thomson	M74HC597	
	Toshiba	TC74HC597A	
MM74HC620	SGS-Thomson	M74HC620	
	TI	SN74HC620	
	Toshiba	**TC74HC620A**	**(3836)**
MM74HC623	SGS-Thomson	M74HC623	
	TI	SN74HC623	
	Toshiba	**TC74HC623A**	**(3836)**
MM74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
	Motorola	MC74HC640A	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
MM74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
MM74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
MM74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
MM74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
MM74HC7266	Harris	CD74HC7266	
	Motorola	MC74HC7266	
	Philips	74HC7266	
	SGS-Thomson	M74HC7266	
	TI	SN74HC7266	
	Toshiba	**TC74HC7266A**	**(3836)**
MM74HC73	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	Philips	74HC73	
	Rochester	74HC73	
	SGS-Thomson	M74HC73	
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	**(3836)**
MM74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	Philips	74HC74	
	Rochester	74HC74	
			(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MM74HC74 (Cont'd)	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
MM74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	Philips	74HC75	
	Rochester	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
MM74HC76	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	Rochester	74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
MM74HC77	Rochester	74HC77	
MM74HC78	Rochester	74HC78	
MM74HC804	Rochester	74HC804	
MM74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
	Motorola	MC74HC85	
	Philips	74HC85	
	Rochester	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
MM74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	Philips	74HC86	
	Rochester	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
MM80C97	GoldStar	GD40097	
MM80C98	GoldStar	GD40098	
MM8629	GEC Plessey	SP8629	
NDF9406	Lin Int Sys	LS832	
NDF9407	Lin Int Sys	LS832	
NDF9408	Lin Int Sys	LS832	
NDF9409	Lin Int Sys	LS832	
NDF9410	Lin Int Sys	LS832	
NHM0026	**Micrel**	**MIC426**	**(3688)**
		MIC4426	**(3688)**
NMC2114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
NMC2147	Cypress	CY2147	
		CY7C147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
NMC2148	AMD	AM2148	
	Cypress	CY21L48	
		CY2148	
		CY7C148	
NMC27CP128	TI	TMS27C128	
		TMS27PC128	
NMC27C010	AMD	AM27C010	
	Krueger	27C010	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC571000	
NMC27C020	AMD	AM27C020	
	TI	TMS27C010A	
		TMS27PC010A	
NMC27C040	AMD	AM27C040	
NMC27C1023	Catalyst Semi	CAT27010	
	Waferscale	WS27C010	
NMC27C1024	AMD	AM27C1024	
	Catalyst Semi	CAT27C210	
	Krueger	27C210	
	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC571024	
	Waferscale	WS27C210	
NMC27C128	AMD	AM27C128	
	Krueger	27C128-200	
		27C128-250	
	Microchip	27C128	
NMC27C16	Rochester	27C16	
NMC27C256	AMD	AM27C256	
	Microchip	27C256	
	SEEQ	27C256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
		TC57256	
	Waferscale	WS27C256	
NMC27C512	AMD	AM27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	Microchip	27C512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC54512	
		TC57512	
	Waferscale	WS27C512	
NMC27C64	AMD	AM27C64	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
NMC27020	TI	TMS27C020	
NMC27040	TI	TMS27C040	
		TMS27PC040	
NMC27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
NMC2816	Catalyst Semi	CAT28C16	
NMC3764	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
NMC48F512	TI	TMS29F512	
♦ NMC54C902	Rochester	54C902	
♦ NMC74C89	Rochester	74C89	
NMC8917	Microchip	28C17	
NMC93CS46	EXEL	XL93CS46	
NMC93CS56	Samsung	KM93CS56	
NMC93CS66	Samsung	KM93CS66	
NMC93C06	EXEL	XL93LC06	
NMC93C46	EXEL	XL93C46	
		XL93LC46	
NMC93C56	EXEL	XL93C56	
		XL93LC56	
	Samsung	KM93C56	
NMC93C66	EXEL	XL93C66	
		XL93LC66	
	Samsung	KM93C66	
NMC9306	EXEL	XL93LC06	
	Samsung	KM93C06	
NMC9307	Samsung	KM93C07	
NMC9314	EXEL	XL93LC46	
NMC9341	EXEL	XL93C46	
NMC9346	**Catalyst Semi**	**CAT93C46**	**(3565)**
	EXEL	XL93C46	
	OKI	MSM16811	
	Samsung	KM93C46	
NMC9346MN	ICT	93C46A	
		93C46C	
NMC98C64	Microchip	28CP64	
	NEC	µPD28C64	
NMC9816	Microchip	28C16	
NMFP5493	Sharp	LH5493	
NMFS5494	Sharp	LH5494	
NMF1024X9	Sharp	LH5497	
NMF2048X9	Sharp	LH5498	
NMF4096X9	Sharp	LH5499	
NMF512X9	Sharp	LH5496	
NMS1024X18	Sharp	LH521028	
NMS1024X4	Sharp	LH521002	
NMS1024X8	Sharp	LH521007	
		LH521008	
NMS256X4	Sharp	LH52252	
NMS256X8	Sharp	LH52258	
NM100492	IDT	IDT100496	
NM100494	IDT	IDT100494	
NM100504	IDT	IDT100504	
NM10494	IDT	IDT10494	
NM27C512AVE150	Philips	27C5121-15A	
NM27C64-150	Philips	27C64-15	
NM2764	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
NM2764 (Cont'd)	**Krueger**	**2764-300**	**(3663)**
		2764-450	**(3663)**
NM44251	LogicDev	L7C199	
NM4492	IDT	IDT10496	
NM5104	IDT	IDT101504	
NPD8302	Lin Int Sys	LS3955	
NPD8303	Lin Int Sys	LS3956	
NSC858	SMC	COM8017	
NS16C450	Exar	XR16C450	
NS16C552	Startech	ST16C2552	
NS16450	Krueger	16450	
	Startech	ST16C450	
	UMC	UM82450	
NS16550	Startech	ST16C550	
	UMC	UM82C550	
NS455	SMC	CRT9028	
		CRT9053	
		CRT9128	
		CRT9153	
NS58167	UMC	UM82C8167	
NS8250	UMC	UM8250	
NS8464	Philips	AM6012	
N3101	AMD	AM27S02	
OP07	AD	OP07	
	TI	OP07	
PAL10H8	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL10L8	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL10016	Cypress	CY100E301	
		CY100E302	
PAL1016	Cypress	CY10E301	
		CY10E302	
PAL12H6	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL12L10	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	TI	TIBPAL22V10	
PAL12L6	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL14H4	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL14L4	Intel	5C032	
		85C220	
	ICT	PEEL20CG10	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL14L8	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
		TIBPAL22V10	
PAL16C1	Intel	5C032	
		85C220	
PAL16H2	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL16L2	Intel	5C032	
		85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL16L6	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	5C032	
		85C220	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL16L8	Cypress	CYPALC16L8	
		PALC16L8	
	Intel	5C032	
		85C220	
		85C508	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PAL16RA8	Intel	5C032	
PAL16RP4	ICT	PEEL18CV8	
PAL16RP6	ICT	PEEL18CV8	
PAL16RP8	ICT	PEEL18CV8	
PAL16R4	Cypress	CYPALC16R4	
		PALC16R4	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	TI	TIBPAL16R4	
PAL16R4A	Cypress	PALC16R4	
PAL16R6	Cypress	CYPALC16R6	
		PALC16R6	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	TI	TIBPAL16R6	
PAL16R6A	Cypress	PALC16R6	
PAL16R8	Cypress	CYPALC16R8	
		PALC16R8	
	Intel	5C032	
		85C220	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
	TI	TIBPAL16R8	
PAL16R8A	Cypress	PALC16R8	
PAL164	Cypress	CYPALC16R4	
PAL18L4	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL18P8	ICT	PEEL18CV8	
PAL20C1	Intel	85C220	
		85C224	
PAL20L10	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	PLD22V10	
		85C22V10	
	Lattice	GAL22V10	
	TI	TIBPAL22V10	
PAL20L2	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL20L8	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PAL20P8	Intel	85C224	
	Lattice	GAL20V8	
PAL20RA10	AMD	PALCE20RA10	
	Intel	PLD610	
		85C060	
	Lattice	GAL20RA10	
	SEEQ	DM20RA10	
		DQ20RA10	
		NQ20RA10	
		PQ20RA10	
PAL20RP4	Intel	85C224	
	Lattice	GAL20V8	
PAL20RP6	Intel	85C224	
	Lattice	GAL20V8	
PAL20RP8	Intel	85C224	
	Lattice	GAL20V8	
PAL20R4	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20R4	
PAL20R6	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20R6	
PAL20R8	Cypress	CYPLDC20G10	
		PLDC20G10	
	Intel	85C224	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
	TI	TIBPAL20R8	
PAL20X10	Lattice	GAL22V10	
	TI	TIBPAL20V10	
		TIBPAL22V10	
PAL20X4	Lattice	GAL22V10	
	TI	TIBPAL22V10	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
PAL20X8	Lattice	GAL22V10	
	TI	TIBPAL22V10	
PM248	AD	PM248	
P8251	Krueger	8251	
P8253	Krueger	8253	
SG324	National	µA324	
SH0002	National	LH0002	
SH123	LinearTech	LM123	
		LT1003	
		LT1023	
		LT123	
SH1605	National	LH1605	
SH323	LinearTech	LT1003	
		LT323	
	National	LM323	
S8806	Lansdale	SL8806	
TDA2560	American Micro	S2560	
TLC532	TI	TLC532	
TL074MJ	TI	TL074MJ	
TL081	Harris	CA081	
	TI	TL081	
TL082	Harris	CA082	
	Motorola	MC33282	
	TI	TL082	
TP3040	CMD Micro	G8912B	
TP3052	National	µA3052	
TP3054	Harris	CD22354	
	National	µA30S54	
TP3057	Harris	CD22357	
	National	µA30S57	
TP3064	National	µA30S64	
TP3067	National	µA30S67	
TP3204	National	µA5800	
TP5087	GEC Plessey	MV5087	
	UMC	UM95087	
TP5089	GEC Plessey	MV5089	
	UMC	UM95089	
TP5116	National	µA5116	
		µA5156	
TP53144	UMC	UM9151	
TP53190	UMC	UM9151	
TP5393	UMC	UM9151	
TP5395	UMC	UM95088	
TP5605	UMC	UM91611	
TP5615	UMC	UM91611	
TP5660	UMC	UM91261	
UA723LMQB	TI	UA723MFKB	
UC3842	Philips	UC3842	
ULQ2003	National	µA9667	
UMC662	TI	TLC2202	
U401	Lin Int Sys	LSU401	
U402	Lin Int Sys	LSU402	
U403	Lin Int Sys	LSU403	
U404	Lin Int Sys	LSU404	
U405	Lin Int Sys	LS845	
U406	Lin Int Sys	LS845	
U441	Lin Int Sys	LS5912	
VM27C256	Waferscale	WS27C256	
ZNA216	National	ADC3701	
100101	Rochester	100101	
	Synergy	**SY100S301**	**(3806)**
100102	**Synergy**	**SY100S302**	**(3806)**
100104	**Synergy**	**SY100S304**	**(3806)**
100107	**Synergy**	**SY100S307**	**(3806)**
100113	**Synergy**	**SY100S313**	**(3806)**
100113	Rochester	100113	
100114	**Synergy**	**SY100S314**	**(3806)**
100114	Rochester	100114	
100117	**Synergy**	**SY100S317**	**(3806)**
100118	**Synergy**	**SY100S318**	**(3806)**
100121	Rochester	100121	
100122	**Synergy**	**SY100S322**	**(3806)**
100122	Rochester	100122	
100124	Rochester	100124	
100125	Rochester	100125	
100128	Rochester	100128	
100131	**Synergy**	**SY100S331**	**(3806)**
100136	**Synergy**	**SY100S336**	**(3806)**
100136	Rochester	100136	
100141	**Synergy**	**SY100S341**	**(3806)**
100141	Rochester	100141	
100150	**Synergy**	**SY100S350**	**(3806)**
100150	Rochester	100150	
100151	**Synergy**	**SY100S351**	**(3806)**
100151	Rochester	100151	
100155	**Synergy**	**SY100S355**	**(3806)**
100155	Rochester	100155	
100156	Synergy	SY100S356	
100160	**Synergy**	**SY100S360**	**(3806)**
♦ 100160	Rochester	100160	
100163	**Synergy**	**SY100S363**	**(3806)**
♦ 100163	Rochester	100163	
100164	**Synergy**	**SY100S364**	**(3806)**
♦ 100164	Rochester	100164	
100165	Synergy	SY100S365	
100166	**Synergy**	**SY100S366**	**(3806)**
100170	**Synergy**	**SY100S370**	**(3806)**
100171	**Synergy**	**SY100S371**	**(3806)**
♦ 100171	Rochester	100171	
♦ 100175	Rochester	100175	
♦ 100181	Rochester	64C64	
10141	Rochester	10141	
10165	Rochester	10165	
10181	Rochester	10181	
11C05	GEC Plessey	SP8610	
11C90	GEC Plessey	SP8680	
		SP8685	
11C91	GEC Plessey	SP8740	
♦ 180051	Lansdale	ML1900	
♦ 180059	Lansdale	ML1800	
♦ 180151	Lansdale	ML1901	
♦ 180159	Lansdale	ML1801	
♦ 180251	Lansdale	ML1902	
♦ 180259	Lansdale	ML1802	
♦ 180351	Lansdale	ML1903	
♦ 180359	Lansdale	ML1803	
♦ 180451	Lansdale	ML1904	
♦ 180459	Lansdale	ML1804	
♦ 180551	Lansdale	ML1905	
♦ 180559	Lansdale	ML1805	
♦ 180651	Lansdale	ML1906	
♦ 180659	Lansdale	ML1806	
♦ 180751	Lansdale	ML1907	
♦ 180759	Lansdale	ML1807	
♦ 180851	Lansdale	ML1908	
♦ 180859	Lansdale	ML1808	
♦ 180951	Lansdale	ML1909	
♦ 180959	Lansdale	ML1809	
♦ 181051	Lansdale	ML1910	
♦ 181059	Lansdale	ML1810	
♦ 181151	Lansdale	ML1911	
♦ 181159	Lansdale	ML1811	
♦ 181251	Lansdale	ML1912	
♦ 181259	Lansdale	ML1812	
♦ 181451	Lansdale	ML1914	
♦ 181459	Lansdale	ML1814	
♦ 181651	Lansdale	ML1916	
♦ 181659	Lansdale	ML1816	
2N3921	Lin Int Sys	LS844	
2N3922	Lin Int Sys	LS844	
2N3954	Lin Int Sys	LS3954	
2N3954A	Lin Int Sys	LS3954A	
2N3955	Lin Int Sys	LS3955	
2N3955A	Lin Int Sys	LS3954	
2N3956	Lin Int Sys	LS3956	
2N3957	Lin Int Sys	LS3955	
2N3958	Lin Int Sys	LS3958	
2N4082	Lin Int Sys	LS3954	
2N4083	Lin Int Sys	LS3955	
2N4084	Lin Int Sys	LS845	
2N4085	Lin Int Sys	LS845	
2N5045	Lin Int Sys	LS840	
2N5046	Lin Int Sys	LS840	
2N5047	Lin Int Sys	LS840	
2N5196	Lin Int Sys	LS840	
2N5197	Lin Int Sys	LS841	
2N5198	Lin Int Sys	LS841	
2N5199	Lin Int Sys	LS842	
2N5452	Lin Int Sys	LS840	
2N5453	Lin Int Sys	LS840	
2N5454	Lin Int Sys	LS840	
2N5515	Lin Int Sys	LS840	
2N5516	Lin Int Sys	LS841	
2N5517	Lin Int Sys	LS841	
2N5518	Lin Int Sys	LS842	
2N5519	Lin Int Sys	LS842	
2N5520	Lin Int Sys	LS840	
2N5521	Lin Int Sys	LS841	
2N5522	Lin Int Sys	LS841	
2N5523	Lin Int Sys	LS842	
2N5524	Lin Int Sys	LS842	
2N5545	Lin Int Sys	LS840	
2N5546	Lin Int Sys	LS841	
2N5547	Lin Int Sys	LS841	
2N5902	Lin Int Sys	LS830	
2N5903	Lin Int Sys	LS830	
2N5904	Lin Int Sys	LS830	
2N5905	Lin Int Sys	LS5905	
2N5906	Lin Int Sys	LS5906	
2N5907	Lin Int Sys	LS5907	
2N5908	Lin Int Sys	LS5908	
2N5909	Lin Int Sys	LS5909	
2N5911	Lin Int Sys	LS5911	
2N5912	Lin Int Sys	LS5912	
2N6483	Lin Int Sys	LS844	
2N6484	Lin Int Sys	LS844	
2N6485	Lin Int Sys	LS845	
2114	AMD	AM91L14	
		AM9114	
2841	GEC Plessey	MV66401	
29F01	Waferscale	WS5901	
29F10	Waferscale	WS59510	
3046	GEC Plessey	SL3046	
3145	GEC Plessey	SL3145	
♦ 3262	Lansdale	FL3262	
♦ 3262A	Lansdale	FL3262A	
♦ 3341	Lansdale	FL3341	
♦ 3342	Lansdale	FL3342	
♦ 3348	Lansdale	FL3348	
♦ 3349	Lansdale	FL3349	
♦ 3351	Lansdale	FL3351	
♦ 3357	Lansdale	FL3357	
3572	National	LH0021	
♦ 3708	Lansdale	FL3708	
♦ 4008	Rochester	54C83	
		74C83	
♦ 40192	Rochester	54C192	
		74C192	
♦ 4028	Rochester	54C42	
		74C42	
♦ 4511	Rochester	14511	
♦ 4520	Rochester	14520	
♦ 4609	Lansdale	FL4609	
♦ 4611	Lansdale	FL4611	
♦ 4725	Rochester	54C89	
		74C89	
5204	Hughes	H1831	
		H1832	
5232	Hughes	H1831	
		H1832	
5233	Hughes	H1831	
		H1832	
54ACTQ00	National	54ACTQ02	
54ACTQ02	National	54ACTQ00	
54ACTQ04	National	54ACTQ08	
54ACTQ08	National	54ACTQ04	
54ACTQ10	National	54ACTQ14	
54ACTQ14	National	54ACTQ10	
54ACTQ153	National	54ACTQ16240	
54ACTQ16240	National	54ACTQ153	
54ACTQ16244	National	54ACTQ16373	
54ACTQ16373	National	54ACTQ16244	
54ACTQ16374	National	54ACTQ16540	
54ACTQ16540	National	54ACTQ16374	
54ACTQ16541	National	54ACTQ16543	
54ACTQ16543	National	54ACTQ16541	
54ACTQ16646	National	54ACTQ240	
54ACTQ240	National	54ACTQ16646	
54ACTQ241	National	54ACTQ244	
54ACTQ244	National	54ACTQ241	
54ACTQ245	National	54ACTQ273	
54ACTQ273	National	54ACTQ245	
54ACTQ32	National	54ACTQ3283T	
54ACTQ3283T	National	54ACTQ32	
54ACTQ373	National	54ACTQ374	
54ACTQ374	National	54ACTQ373	
54ACTQ377	National	54ACTQ533	
54ACTQ533	National	54ACTQ377	
54ACTQ534	National	54ACTQ543	
54ACTQ543	National	54ACTQ534	
54ACTQ544	National	54ACTQ563	
54ACTQ563	National	54ACTQ544	
54ACTQ564	National	54ACTQ573	
54ACTQ573	National	54ACTQ564	
54ACTQ574	National	54ACTQ646	
54ACTQ646	National	54ACTQ574	
54ACTQ652	National	54ACTQ657	
54ACTQ657	National	54ACTQ652	
54ACTQ821	National	54ACTQ827	
54ACTQ827	National	54ACTQ821	
54ACTQ841	National	54ACTQ843	
54ACTQ843	National	54ACTQ841	
54ACT00	Harris	CD54ACT00	
54ACT02	Harris	CD54ACT02	
54ACT04	Harris	CD54ACT04	
54ACT08	Harris	CD54ACT05	
		CD54ACT08	
54ACT10	Harris	CD54ACT10	
♦ 54ACT1010	National	54ACT1016	
♦ 54ACT1017	Harris	CD54ACT109	
♦ 54ACT109	Harris	CD54ACT109	
54ACT1110	TI	54ACT11086	
54ACT112	Harris	CD54ACT112	
	TI	54ACT11194	
54ACT125	TI	54ACT11882	
54ACT138	Harris	CD54ACT138	
54ACT139	Harris	CD54ACT139	
54ACT14	Harris	CD54ACT151	
	National	54ACT151	
54ACT151	Harris	CD54ACT151	
	National	54ACT14	
54ACT153	Harris	CD54ACT153	
54ACT157	Harris	CD54ACT157	
54ACT158	Harris	CD54ACT158	
54ACT161	Harris	CD54ACT161	
54ACT163	Harris	CD54ACT163	
54ACT164	Harris	CD54ACT164	
54ACT169	Harris	CD54ACT174	
	National	54ACT174	
54ACT174	Harris	CD54ACT174	
	National	54ACT169	
54ACT181	National	54ACT182	
54ACT182	National	54ACT181	
54ACT240	Harris	CD54ACT240	
54ACT241	Harris	CD54ACT241	
54ACT244	Harris	CD54ACT244	
54ACT245	Harris	CD54ACT245	
54ACT251	Harris	CD54ACT251	
54ACT253	Harris	CD54ACT253	
54ACT257	Harris	CD54ACT257	
54ACT258	Harris	CD54ACT258	
54ACT2708	Harris	CD54ACT273	
	National	54ACT273	
54ACT273	Harris	CD54ACT273	
	National	54ACT2708	
54ACT280	Harris	CD54ACT280	
54ACT283	Harris	CD54ACT283	
54ACT299	Harris	CD54ACT299	
54ACT32	Harris	CD54ACT32	
54ACT323	Harris	CD54ACT323	
54ACT350	National	54ACT367	
54ACT367	National	54ACT350	
54ACT368	Harris	CD54ACT373	
	National	54ACT373	
54ACT373	Harris	CD54ACT373	
	National	54ACT368	
54ACT374	Harris	CD54ACT374	
♦ 54ACT378	National	54ACT377	
54ACT381	National	54ACT399	
54ACT399	National	54ACT381	
54ACT520	National	54ACT521	
54ACT521	National	54ACT520	
♦ 54ACT533	Harris	CD54ACT533	
54ACT534	Harris	CD54ACT534	
54ACT540	Harris	CD54ACT540	
54ACT541	Harris	CD54ACT541	
54ACT543	National	54ACT544	
54ACT544	National	54ACT543	
54ACT563	Harris	CD54ACT563	
54ACT564	Harris	CD54ACT564	
54ACT573	Harris	CD54ACT573	
54ACT574	Harris	CD54ACT574	
54ACT657	National	54ACT705	
54ACT705	National	54ACT657	
54ACT715	National	54ACT715R	
54ACT715R	National	54ACT715	
54ACT74	Harris	CD54ACT74	
54ACT818	Harris	CD54ACT7651	
♦ 54ACT822	National	54ACT821	
♦ 54ACT842	National	54ACT841	
54ACT85	Harris	CD54ACT86	
54ACT899	Harris	CD54AC00	
	National	54AC00	
54AC00	Harris	CD54AC00	
	National	54ACT899	
54AC02	Harris	CD54AC02	
54AC04	Harris	CD54AC04	
54AC08	Harris	CD54AC08	
54AC10	Harris	CD54AC10	
♦ 54AC1017	Harris	CD54AC109	
	National	54AC109	
54AC109	Harris	CD54AC109	
54AC11	TI	SN54AC11000	
		54AC11000	
54AC112	Harris	CD54AC112	
	TI	54AC11194	
54AC125	Harris	CD54AC138	
	National	54AC138	
54AC138	Harris	CD54AC138	
	National	54AC125	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
54AC139	Harris	CD54AC139	
54AC14	Harris	CD54AC151	
	National	54AC151	
54AC151	Harris	CD54AC151	
	National	54AC14	
54AC153	Harris	CD54AC153	
54AC157	Harris	CD54AC157	
54AC158	Harris	CD54AC158	
♦ 54AC160	Harris	CD54AC161	
	National	54AC161	
54AC161	Harris	CD54AC161	
54AC163	Harris	CD54AC163	
54AC164	Harris	CD54AC164	
54AC169	TI	54AC16843	
54AC174	Harris	CD54AC174	
54AC191	Harris	CD54AC191	
54AC20	Harris	CD54AC193	
		CD54AC20	
54AC240	Harris	CD54AC238	
		CD54AC240	
54AC241	Harris	CD54AC241	
54AC244	Harris	CD54AC244	
54AC245	Harris	CD54AC245	
54AC251	Harris	CD54AC251	
54AC2525	National	54AC2526	
54AC2526	National	54AC2525	
54AC253	Harris	CD54AC253	
54AC257	Harris	CD54AC257	
54AC258	Harris	CD54AC258	
54AC269	National	54AC2708	
54AC2708	National	54AC269	
54AC273	Harris	CD54AC273	
54AC280	Harris	CD54AC280	
54AC283	Harris	CD54AC283	
54AC299	Harris	CD54AC299	
54AC32	Harris	CD54AC32	
♦ 54AC323	Harris	CD54AC323	
54AC350	Harris	CD54AC373	
	National	54AC373	
54AC373	Harris	CD54AC373	
	National	54AC350	
54AC374	Harris	CD54AC374	
54AC377	National	54AC378	
54AC378	National	54AC377	
♦ 54AC379	National	54AC4024	
54AC520	National	54AC521	
54AC521	National	54AC520	
54AC540	Harris	CD54AC540	
54AC541	Harris	CD54AC541	
♦ 54AC563	Harris	CD54AC563	
♦ 54AC564	Harris	CD54AC564	
♦ 54AC569	Harris	CD54AC573	
♦ 54AC573	Harris	CD54AC573	
54AC574	Harris	CD54AC574	
54AC646	Harris	CD54AC623	
54AC74	Harris	CD54AC74	
54AC821	National	54AC823	
54AC823	National	54AC821	
54AC825	National	54AC843	
54AC843	National	54AC825	
54AC845	National	54AC85	
54AC85	National	54AC845	
♦ 54AC86	Harris	CD54AC86	
54AC899	**Ideal Semi**	**54AHCT00**	**(3644)**
♦ 54ALS00	Rochester	54ALS00	
♦ 54ALS10A	Rochester	54ALS10	
♦ 54ALS12	Rochester	54ALS12	
♦ 54ALS138	Rochester	54ALS138	
♦ 54ALS174	Rochester	54ALS174	
♦ 54ALS21	Rochester	54ALS21	
♦ 54ALS240	Rochester	54ALS240	
♦ 54ALS241	Rochester	54ALS241	
♦ 54ALS244	Rochester	54ALS244	
♦ 54ALS245	Rochester	54ALS245	
♦ 54ALS251	Rochester	54ALS251	
♦ 54ALS253A	Rochester	54ALS253A	
♦ 54ALS257	Rochester	54ALS257	
♦ 54ALS258	Rochester	54ALS258	
♦ 54ALS30	Rochester	54ALS30	
♦ 54ALS32	Rochester	54ALS32	
♦ 54ALS373	Rochester	54ALS373	
♦ 54ALS38	Rochester	54ALS38	
♦ 54ALS521	Rochester	54ALS521	
♦ 54ALS534	Rochester	54ALS534	
♦ 54ALS573	Rochester	54ALS573	
♦ 54ALS574	Rochester	54ALS574	
♦ 54ALS74	Rochester	54ALS74	
♦ 54ALS804	Rochester	54ALS804	
54FCT138	IDT	IDT54FCT138	
54FCT240	IDT	IDT54FCT240	
54FCT241	IDT	IDT54FCT241	
54FCT244	IDT	IDT54FCT244	
54FCT245	IDT	IDT54FCT245	
54FCT373	IDT	IDT54FCT373	
54FCT374	IDT	IDT54FCT374	
54FCT533	IDT	IDT54FCT533	
54FCT540	IDT	IDT54FCT540	
54FCT541	IDT	IDT54FCT541	
54FCT573	IDT	IDT54FCT573	
54F00	Motorola	MC54F00	
	Philips	54F00	
	TI	SN54F00	
54F02	Motorola	MC54F02	
	TI	SN54F02	
54F04	Motorola	MC54F04	
	Philips	54F04	
	Rochester	54F04	
	TI	SN54F04	
54F08	Motorola	MC54F08	
54F10	Motorola	MC54F10	
	TI	SN54F09	
		SN54F10	
54F109	Motorola	MC54F109	
	Rochester	54F109	
	TI	SN54F109	
54F11	Motorola	MC54F11	
	TI	SN54F11	
54F112	Motorola	MC54F112	
	TI	SN54F112	
54F113	TI	SN54F113	
54F114	TI	SN54F114	
54F125	Motorola	MC54F125	
♦ 54F126	Motorola	MC54F126	
54F13	Motorola	MC54F13	
54F132	Motorola	MC54F132	
54F138	Motorola	MC54F138	
	TI	SN54F138	
54F139	Motorola	MC54F139	
	Philips	54F139	
	Rochester	54F139	
54F14	Motorola	MC54F14	
54F148	Motorola	MC54F148	
54F151	Motorola	MC54F151	
	National	54F151A	
	TI	SN54F151	
54F151A	Motorola	MC54F151	
	National	54F151	
	TI	SN54F151	
54F153	Motorola	MC54F153	
	Rochester	54F153	
	TI	SN54F153	
54F157	Motorola	MC54F157	
		MC54F157A	
	National	54F157A	
	Philips	54F157	
	TI	SN54F157A	
54F157A	Motorola	MC54F157	
		MC54F157A	
	National	54F157	
	Philips	54F157	
	TI	SN54F157A	
54F158	Motorola	MC54F158	
		MC54F158A	
	National	54F158A	
	Philips	54F158	
	TI	SN54F158A	
54F158A	Motorola	MC54F158	
		MC54F158A	
	National	54F158	
	Philips	54F158	
	TI	SN54F158A	
54F160A	TI	SN54F160A	
54F161A	Rochester	54F161	
	TI	SN54F161A	
♦ 54F161A	Rochester	54F161	
54F162A	TI	SN54F162A	
54F163A	TI	SN54F163A	
54F164	Motorola	MC54F164	
	National	54F164A	
	Rochester	54F164	
♦ 54F164	Rochester	54F164	
54F164A	Motorola	MC54F164	
	National	54F164	
	Rochester	54F164	
54F168	Motorola	MC54F168	
	TI	SN54F168	
54F169	Motorola	MC54F169	
	TI	SN54F169	
54F174	Motorola	MC54F174	
	TI	SN54F174	
54F175	Motorola	MC54F175	
	Rochester	54F175	
	TI	SN54F175	
54F181	Motorola	MC54F181	
	Philips	54F181	
54F182	Motorola	MC54F182	
♦ 54F195	Motorola	MC54F195	
54F20	Motorola	MC54F20	
	Philips	54F20	
	Rochester	54F20	
	TI	SN54F20	
♦ 54F213	National	54F219	
54F2240	National	54F2241	
54F2241	National	54F2240	
54F2243	National	54F2244	
54F2244	National	54F2243	
54F240	Motorola	MC54F240	
	Philips	54F240	
	Rochester	54F240	
	TI	SN54F240	
54F241	Motorola	MC54F241	
	Philips	54F241	
	Rochester	54F241	
	TI	SN54F241	
54F242	Motorola	MC54F242	
	TI	SN54F242	
54F243	Motorola	MC54F243	
	TI	SN54F243	
54F244	Motorola	MC54F244	
	Rochester	54F244	
	TI	SN54F244	
54F245	Motorola	MC54F245	
	TI	SN54F245	
54F251A	Motorola	MC54F251	
	Rochester	54F251A	
	TI	SN54F251	
54F253	Motorola	MC54F253	
	TI	SN54F253	
54F256	Motorola	MC54F256	
54F257	Motorola	MC54F257	
	National	54F257A	
	Philips	54F257	
	Rochester	54F257A	
	TI	SN54F257	
54F257A	Motorola	MC54F257	
	National	54F257	
	Philips	54F257	
	TI	SN54F257	
54F258	Motorola	MC54F258	
	National	54F258A	
	Philips	54F258	
	TI	SN54F258	
54F258A	Motorola	MC54F258	
	National	54F258	
	Philips	54F258	
	TI	SN54F258	
54F259	Motorola	MC54F259	
54F2620	National	54F2623	
54F2623	National	54F2620	
54F2640	National	54F2643	
54F2643	National	54F2640	
54F2645	Motorola	MC54F269	
	National	54F269	
	Philips	54F269	
54F269	Motorola	MC54F269	
	National	54F2645	
	Philips	54F269	
54F27	TI	SN54F27	
54F273	Motorola	MC54F273	
	TI	SN54F273	
54F280	Motorola	MC54F280	
	Philips	54F280	
	TI	SN54F280B	
54F283	Motorola	MC54F283	
	TI	SN54F283	
♦ 54F289	TI	SN54F286	
♦ 54F299	Motorola	MC54F299	
	TI	SN54F299	
54F30	TI	SN54F30	
♦ 54F3037	Philips	54F3037	
54F32	Motorola	MC54F32	
	TI	SN54F32	
54F322	Motorola	MC54F323	
	National	54F323	
54F323	Motorola	MC54F323	
	National	54F322	
54F350	Motorola	MC54F350	
	TI	SN54F350	
54F352	Motorola	MC54F352	
	Rochester	54F352	
	TI	SN54F352	
54F353	Motorola	MC54F353	
	TI	SN54F353	
54F365	Motorola	MC54F365	
	TI	SN54F36	
54F366	Motorola	MC54F366	
	Philips	54F366	
♦ 54F367	Motorola	MC54F367	
	Philips	54F367	
54F368	Motorola	MC54F368	
	Philips	54F368	
54F37	TI	SN54F37	
54F373	Motorola	MC54F373	
	Philips	54F373	
	Rochester	54F373	
	TI	SN54F373	
54F374	Motorola	MC54F374	
	Philips	54F374	
	Rochester	54F374	
	TI	SN54F374	
54F377	Motorola	MC54F377	
	Philips	54F377	
54F378	Motorola	MC54F378	
54F379	Motorola	MC54F379	
	TI	SN54F379	
54F38	TI	SN54F38	
54F381	Motorola	MC54F381	
	TI	SN54F381	
54F382	Motorola	MC54F382	
	TI	SN54F382	
54F384	National	54F385	
54F385	National	54F384	
54F395	Motorola	MC54F398	
	National	54F398	
54F398	Motorola	MC54F398	
	National	54F395	
	Rochester	54F398	
54F399	Motorola	MC54F399	
54F40	TI	SN54F40	
54F401	National	54F402	
54F402	National	54F401	
54F403	National	54F403A	
54F403A	National	54F403	
54F407	National	54F410	
54F410	National	54F407	
54F412	National	54F413	
54F413	National	54F412	
♦ 54F430	National	54F420	
54F432	National	54F433	
54F433	National	54F432	
54F51	Motorola	MC54F51	
	TI	SN54F51	
♦ 54F510	TI	SN54F518	
54F521	Motorola	MC54F521	
	Philips	54F521	
	TI	SN54F521	
54F524	National	54F525	
54F525	National	54F524	
♦ 54F526	Motorola	MC54F533	
	National	54F533	
	TI	SN54F533	
54F533	Motorola	MC54F533	
	TI	SN54F533	
54F534	Motorola	MC54F534	
	TI	SN54F534	
54F537	Motorola	MC54F537	
54F538	Motorola	MC54F538	
54F539	Motorola	MC54F539	
54F541	Motorola	MC54F543	
	National	54F543	
	TI	SN54F543	
54F543	Motorola	MC54F543	
	National	54F541	
	TI	SN54F543	
54F544	Motorola	MC54F544	
	TI	SN54F544	
54F547	National	54F548	
54F548	National	54F547	
54F550	National	54F551	
54F551	National	54F550	
♦ 54F557	National	54F552	
54F563	TI	SN54F563	
54F564	Motorola	MC54F568	
	National	54F568	
54F568	Motorola	MC54F568	
	National	54F564	
54F569	Motorola	MC54F569	
54F573	TI	SN54F573	
54F574	Motorola	MC54F574	
	TI	SN54F574	
54F579	Motorola	MC54F579	
	Philips	54F579	
54F582	National	54F583	
54F583	National	54F582	
54F588	National	54F595	
54F595	National	54F588	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
54F597	National	54F598	
54F598	National	54F597	
54F620	TI	SN54F620	
♦ 54F621	TI	SN54F621	
♦ 54F622	National	54F623	
	TI	SN54F623	
54F623	TI	SN54F623	
54F632	Motorola	MC54F64	
	National	54F64	
	TI	SN54F64	
54F64	Motorola	MC54F64	
	National	54F632	
	TI	SN54F64	
54F646	Motorola	MC54F646	
	Philips	54F646	
54F648	Motorola	MC54F648	
♦ 54F655	National	54F652	
♦ 54F656	Philips	54F656	
54F657	Motorola	MC54F657A	
		MC54F657B	
	Philips	54F657	
54F673	National	54F673A	
54F673A	National	54F673	
54F674	National	54F675	
		54F675A	
54F675	National	54F674	
		54F675A	
54F675A	National	54F674	
		54F675	
54F676	National	54F701	
54F701	National	54F676	
54F702	National	54F707	
54F707	National	54F702	
54F710	Motorola	MC54F74	
	National	54F74	
	TI	SN54F74	
54F74	Motorola	MC54F74	
	National	54F710	
	TI	SN54F74	
54F779	Motorola	MC54F779	
♦ 54F784	National	54F794	
54F821	Motorola	MC54F803	
54F823	National	54F825	
54F825	National	54F823	
54F827	Motorola	MC54F827	
54F828	Motorola	MC54F828	
♦ 54F843	National	54F841	
54F845	Motorola	MC54F85	
♦ 54F85	Motorola	MC54F85	
	National	54F845	
54F86	Motorola	MC54F86	
54F899	National	54F968	
54F968	National	54F899	
54F978	**Ideal Semi**	**54HCTLS00**	**(3643)**
♦ 54HCT00	Rochester	54HCT00	
♦ 54HCT04	GoldStar	GD54HCT04	
	Harris	CD54HCT04	
	Motorola	MC54HCT04A	
	National	MM54HCT04	
	Rochester	54HCT04	
	TI	SN54HCT04	
♦ 54HCT07	GoldStar	GD54HCT08	
	Harris	CD54HCT08	
	Motorola	MC54HCT08A	
	National	MM54HCT08	
54HCT190	GoldStar	GD54HCT190	
	Harris	CD54HCT190	
♦ 54HC00	GoldStar	GD54HC00	
	Harris	CD54HCT93	
		CD54HC00	
♦ 54HC00	Motorola	MC54HC00A	
	National	MM54HC00	
	TI	SN54HC00	
♦ 54HC02	GoldStar	GD54HC01	
		GD54HC02	
♦ 54HC02	Harris	CD54HC02	
	Motorola	MC54HC02A	
	National	MM54HC02	
	TI	SN54HC02	
♦ 54HC07	GoldStar	GD54HC08	
	Harris	CD54HC08	
	Motorola	MC54HC08A	
	National	MM54HC08	
	TI	SN54HC08	
♦ 54HC08	GoldStar	GD54HC08	
	Harris	CD54HC08	
	Motorola	MC54HC08A	
	National	MM54HC08	
	TI	SN54HC08	
♦ 54HC10	GoldStar	GD54HC10	
	Harris	CD54HC10	
	Motorola	MC54HC10	
	National	MM54HC10	
	TI	SN54HC10	
♦ 54HC109	Harris	CD54HC109	
	Motorola	MC54HC109	
	National	MM54HC109	
	TI	SN54HC109	
♦ 54HC112	Harris	CD54HC112	
	Motorola	MC54HC112	
	National	MM54HC112	
	TI	SN54HC112	
♦ 54HC114	Rochester	54HC114	
♦ 54HC125	GoldStar	GD54HC125	
	Harris	CD54HC125	
	Motorola	MC54HC125A	
	National	MM54HC125	
	TI	SN54HC125	
♦ 54HC132	GoldStar	GD54HC132	
	Harris	CD54HC132	
	Motorola	MC54HC132A	
	National	MM54HC132	
	TI	SN54HC132	
♦ 54HC133	Motorola	MC54HC133	
	National	MM54HC133	
	Rochester	54HC133	
	TI	SN54HC133	
♦ 54HC138	GoldStar	GD54HC138	
	Harris	CD54HC138	
	Motorola	MC54HC138A	
	National	MM54HC138	
	TI	SN54HC138	
♦ 54HC139	GoldStar	GD54HC139	
	Harris	CD54HC139	
	Motorola	MC54HC139A	
	National	MM54HC139	
	TI	SN54HC139	
♦ 54HC14	Harris	CD54HC14	
	Motorola	MC54HC14A	
	National	MM54HC14	
	TI	SN54HC14	
♦ 54HC147	GoldStar	GD54HC147	
	Harris	CD54HC147	
	Motorola	MC54HC147	
	National	MM54HC147	
♦ 54HC151	GoldStar	GD54HC151	
	Harris	CD54HC151	
	Motorola	MC54HC151	
	National	MM54HC149	
		MM54HC151	
♦ 54HC151	TI	SN54HC151	
♦ 54HC153	GoldStar	GD54HC153	
	Harris	CD54HC153	
	Motorola	MC54HC153	
	National	MM54HC153	
	Rochester	54HC153	
	TI	SN54HC153	
♦ 54HC154	GoldStar	GD54HC154	
	Harris	CD54HC154	
	Motorola	MC54HC154	
	National	MM54HC154	
♦ 54HC160	GoldStar	GD54HC160	
	Harris	CD54HC160	
	Motorola	MC54HC160	
	National	MM54HC160	
	TI	SN54HC160	
♦ 54HC162	GoldStar	GD54HC162	
	Harris	CD54HC162	
	Motorola	MC54HC162	
	National	MM54HC162	
	Rochester	54HC162	
♦ 54HC163	GoldStar	GD54HC163	
	Harris	CD54HC163	
	Motorola	MC54HC163A	
	National	MM54HC163	
	TI	SN54HC163	
♦ 54HC164	GoldStar	GD54HC164	
	Harris	CD54HC164	
	Motorola	MC54HC164	
	National	MM54HC164	
	TI	SN54HC164	
♦ 54HC165	GoldStar	GD54HC165	
	Harris	CD54HC165	
	Motorola	MC54HC165	
	National	MM54HC165	
	TI	SN54HC165	
♦ 54HC173	GoldStar	GD54HC173	
	Harris	CD54HC173	
	Motorola	MC54HC173	
	National	MM54HC173	
	Rochester	54HC173	
	TI	SN54HC173	
♦ 54HC175	GoldStar	GD54HC175	
	Harris	CD54HC175	
	Motorola	MC54HC175	
	National	MM54HC175	
	TI	SN54HC175	
♦ 54HC192	GoldStar	GD54HC192	
	Harris	CD54HC192	
	National	MM54HC192	
	TI	SN54HC192	
♦ 54HC193	Harris	CD54HC193	
	National	MM54HC193	
	TI	SN54HC193	
♦ 54HC195	Harris	CD54HC195	
	Motorola	MC54HC195	
	National	MM54HC195	
	TI	SN54HC195	
♦ 54HC20	GoldStar	GD54HC20	
	Harris	CD54HC20	
	Motorola	MC54HC20	
	National	MM54HC20	
	TI	SN54HC20	
♦ 54HC221	GoldStar	GD54HC221	
	Harris	CD54HC221	
	National	MM54HC221A	
♦ 54HC240	Harris	CD54HC240	
	Motorola	MC54HC240A	
	National	MM54HC240	
	TI	SN54HC240	
♦ 54HC241	GoldStar	GD54HC241	
	Harris	CD54HC241	
	Motorola	MC54HC241A	
	National	MM54HC241	
	Rochester	54HC241	
	TI	SN54HC241	
♦ 54HC242	Harris	CD54HC242	
	Motorola	MC54HC242	
	National	MM54HC242	
	Rochester	54HC242	
	TI	SN54HC242	
♦ 54HC243	Harris	CD54HC243	
	National	MM54HC243	
	Rochester	54HC243	
	TI	SN54HC243	
♦ 54HC244	GoldStar	GD54HC244	
	Harris	CD54HC244	
	Motorola	MC54HC244A	
	National	MM54HC244	
	TI	SN54HC244	
♦ 54HC245	GoldStar	GD54HC245	
	Harris	CD54HC245	
	Motorola	MC54HC245A	
	National	MM54HC245	
		MM54HC245A	
♦ 54HC245	TI	SN54HC245	
♦ 54HC251	Harris	CD54HC251	
	Motorola	MC54HC251	
	National	MM54HC251	
	Rochester	54HC251	
	TI	SN54HC251	
♦ 54HC253	Harris	CD54HC253	
	Motorola	MC54HC253	
	National	MM54HC253	
	Rochester	54HC253	
	TI	SN54HC253	
♦ 54HC257	GoldStar	GD54HC257	
	Harris	CD54HC257	
	Motorola	MC54HC257	
	National	MM54HC257	
	TI	SN54HC257	
♦ 54HC259	Harris	CD54HC259	
	Motorola	MC54HC259	
	National	MM54HC259	
	TI	SN54HC259	
♦ 54HC27	GoldStar	GD54HC27	
	Harris	CD54HC27	
	Motorola	MC54HC27	
	National	MM54HC27	
	TI	SN54HC27	
♦ 54HC273	GoldStar	GD54HC273	
	Harris	CD54HC273	
	Motorola	MC54HC273A	
	National	MM54HC273	
	TI	SN54HC273	
♦ 54HC280	GoldStar	GD54HC280	
	Harris	CD54HC280	
	Motorola	MC54HC280	
	National	MM54HC280	
	TI	SN54HC280	
♦ 54HC283	Harris	CD54HC283	
	National	MM54HC283	
♦ 54HC299	GoldStar	GD54HC299	
	Harris	CD54HC299	
♦ 54HC299			(Cont'd)
	Motorola	MC54HC299	
	National	MM54HC299	
♦ 54HC30	GoldStar	GD54HC30	
	Harris	CD54HC30	
	Motorola	MC54HC30	
	National	MM54HC30	
	TI	SN54HC30	
♦ 54HC32	GoldStar	GD54HC32	
	Harris	CD54HC32	
	Motorola	MC54HC32A	
	National	MM54HC32	
	TI	SN54HC32	
♦ 54HC365	GoldStar	GD54HC365	
	Harris	CD54HC365	
	Motorola	MC54HC365	
	National	MM54HC365	
	TI	SN54HC365	
♦ 54HC366	GoldStar	GD54HC366	
	Harris	CD54HC366	
	Motorola	MC54HC366	
	National	MM54HC366	
	Rochester	54HC366	
	TI	SN54HC366	
♦ 54HC367	GoldStar	GD54HC367	
	Harris	CD54HC367	
	Motorola	MC54HC367	
	National	MM54HC367	
	TI	SN54HC367	
♦ 54HC368	GoldStar	GD54HC368	
	Harris	CD54HC368	
	Motorola	MC54HC368	
	National	MM54HC368	
	Rochester	54HC368	
	TI	SN54HC368	
♦ 54HC373	GoldStar	GD54HC373	
	Harris	CD54HC373	
	Motorola	MC54HC373A	
	National	MM54HC373	
	TI	SN54HC373	
♦ 54HC374	GoldStar	GD54HC374	
	Harris	CD54HC374	
	Motorola	MC54HC374A	
	National	MM54HC374	
	TI	SN54HC374	
♦ 54HC390	Harris	CD54HC390	
	Motorola	MC54HC390	
	National	MM54HC390	
	TI	SN54HC390	
♦ 54HC393	GoldStar	GD54HC393	
	Harris	CD54HC393	
	Motorola	MC54HC393	
	National	MM54HC393	
	TI	SN54HC393	
♦ 54HC4017	Harris	CD54HC4017	
	Motorola	MC54HC4017	
	National	MM54HC4017	
♦ 54HC4020	Harris	CD54HC4020	
	Motorola	MC54HC4020	
	National	MM54HC4020	
	TI	SN54HC4020	
♦ 54HC4040	Harris	CD54HC4040	
	Motorola	MC54HC4040	
	National	MM54HC4040	
	TI	SN54HC4040	
♦ 54HC4046	Harris	CD54HC4046A	
	Motorola	MC54HC4046A	
	National	MM54HC4046	
	Rochester	54HC4046	
♦ 54HC4047	Harris	CD54HC4049	
	Motorola	MC54HC4049	
	National	MM54HC4049	
♦ 54HC4049	Harris	CD54HC4049	
	Motorola	MC54HC4049	
	National	MM54HC4049	
♦ 54HC4050	Harris	CD54HC4050	
	Motorola	MC54HC4050	
	National	MM54HC4050	
♦ 54HC4051	Harris	CD54HC4051	
	Motorola	MC54HC4051	
	National	MM54HC4051	
♦ 54HC4052	Harris	CD54HC4052	
	Motorola	MC54HC4052	
	National	MM54HC4052	
♦ 54HC4053	Harris	CD54HC4053	
	Motorola	MC54HC4053	
	National	MM54HC4053	
♦ 54HC42	GoldStar	GD54HC42	
	Harris	CD54HC4094	
		CD54HC42	
♦ 54HC42	Motorola	MC54HC42	
	National	MM54HC42	
	TI	SN54HC42	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54HC4510	Harris	CD54HC4510	
♦ 54HC4512	Harris	CD54HC4514	
	Motorola	MC54HC4514	
	National	MM54HC4514	
♦ 54HC4514	Harris	CD54HC4514	
	Motorola	MC54HC4514	
	National	MM54HC4514	
♦ 54HC4516	Harris	CD54HC4516	
♦ 54HC4538	Harris	CD54HC4520	
		CD54HC4538	
♦ 54HC4538	Motorola	MC54HC4538A	
	National	MM54HC4538	
♦ 54HC4703	GoldStar	GD54HC51	
	Motorola	MC54HC51	
	National	MM54HC51	
	TI	SN54HC51	
♦ 54HC533	GoldStar	GD54HC533	
	Harris	CD54HC533	
	Motorola	MC54HC533A	
	National	MM54HC521	
		MM54HC533	
♦ 54HC533	TI	SN54HC533	
♦ 54HC534	GoldStar	GD54HC534	
	Harris	CD54HC534	
	Motorola	MC54HC534A	
	National	MM54HC534	
	TI	SN54HC534	
♦ 54HC563	Harris	CD54HC563	
	Motorola	MC54HC563	
	National	MM54HC563	
	TI	SN54HC563	
♦ 54HC564	Harris	CD54HC564	
	Motorola	MC54HC564	
	National	MM54HC564	
	TI	SN54HC564	
♦ 54HC573	Harris	CD54HC573	
	Motorola	MC54HC573A	
	National	MM54HC573	
	TI	SN54HC573	
♦ 54HC574	Harris	CD54HC574	
	Motorola	MC54HC574A	
	National	MM54HC574	
	TI	SN54HC574	
♦ 54HC640	Harris	CD54HC640	
	Motorola	MC54HC640A	
	National	MM54HC640	
	TI	SN54HC640	
♦ 54HC643	Harris	CD54HC643	
	National	MM54HC643	
	TI	SN54HC643	
♦ 54HC645	TI	SN54HC645	
♦ 54HC646	GoldStar	GD54HC646	
	Harris	CD54HC646	
	Motorola	MC54HC646	
	National	MM54HC646	
	Rochester	54HC646	
♦ 54HC648	GoldStar	GD54HC648	
	Harris	CD54HC648	
	Motorola	MC54HC648	
	National	MM54HC648	
♦ 54HC688	Harris	CD54HC688	
	Motorola	MC54HC688	
	National	MM54HC688	
	TI	SN54HC688	
♦ 54HC74	GoldStar	GD54HC74	
	Harris	CD54HC74	
	Motorola	MC54HC74A	
	National	MM54HC74	
	TI	SN54HC74	
♦ 54HC75	Harris	CD54HC75	
	Motorola	MC54HC75	
	National	MM54HC75	
	TI	SN54HC75	
♦ 54HC76	Motorola	MC54HC76	
	National	MM54HC76	
♦ 54HC85	Harris	CD54HC85	
	Motorola	MC54HC85	
	National	MM54HC85	
	TI	SN54HC85A	
♦ 54HC86	GoldStar	GD54HC86	
	Harris	CD54HC86	
	Motorola	MC54HC86	
	National	MM54HC86	
	TI	SN54HC86	
♦ 54H00	**Lansdale**	**ML54H00**	**(3669)**
		SL54H00	
♦ 54H00	Rochester	54H00	
♦ 54H01	**Lansdale**	**ML54H01**	**(3669)**
		SL54H01	
♦ 54H01	Rochester	54H01	
♦ 54H04	**Lansdale**	**ML54H04**	**(3669)**
	Rochester	54H04	
♦ 54H05	**Lansdale**	**ML54H05**	**(3669)**
	Rochester	54H05	
♦ 54H08	**Lansdale**	**ML54H08**	**(3669)**
		SL54H08	
♦ 54H08	Rochester	54H08	
♦ 54H09	**Lansdale**	**ML54H10**	**(3669)**
	Rochester	54H10	
♦ 54H10	**Lansdale**	**ML54H10**	**(3669)**
		SL54H10	
♦ 54H10	Rochester	54H10	
♦ 54H101	**Lansdale**	**ML54H101**	**(3669)**
		SL54H101	
♦ 54H101	Rochester	54H101	
♦ 54H102	**Lansdale**	**ML54H102**	**(3669)**
		SL54H102	
♦ 54H102	Rochester	54H102	
♦ 54H103	**Lansdale**	**ML54H103**	**(3669)**
	Rochester	54H103	
♦ 54H106	Rochester	54H106	
♦ 54H108	**Lansdale**	**ML54H108**	**(3669)**
	Rochester	54H108	
♦ 54H11	**Lansdale**	**ML54H11**	**(3669)**
		SL54H11	
♦ 54H11	Rochester	54H11	
♦ 54H183	Rochester	54H183	
♦ 54H20	**Lansdale**	**ML54H20**	**(3669)**
		SL54H20	
♦ 54H20	Rochester	54H20	
♦ 54H21	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
♦ 54H21	Rochester	54H21	
♦ 54H22	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
♦ 54H22	Rochester	54H22	
♦ 54H30	**Lansdale**	**ML54H30**	**(3669)**
		SL54H30	
♦ 54H30	Rochester	54H30	
♦ 54H40	**Lansdale**	**ML54H40**	**(3669)**
		SL54H40	
♦ 54H40	Rochester	54H40	
♦ 54H50	**Lansdale**	**ML54H50**	**(3669)**
	Rochester	54H50	
♦ 54H51	**Lansdale**	**ML54H51**	**(3669)**
	Rochester	54H51	
♦ 54H52	**Lansdale**	**ML54H52**	**(3669)**
		SL54H52	
♦ 54H52	Rochester	54H52	
♦ 54H53	**Lansdale**	**ML54H53**	**(3669)**
		SL54H53	
♦ 54H53	Rochester	54H53	
♦ 54H54	**Lansdale**	**ML54H54**	**(3669)**
		SL54H54	
♦ 54H54	Rochester	RC3133	
		54H54	
54H55	**Lansdale**	**ML54H55**	**(3669)**
	Rochester	54H55	
♦ 54H55	**Lansdale**	**ML54H55**	**(3669)**
		SL54H55	
♦ 54H55	Rochester	RC134	
		54H55	
♦ 54H60	**Lansdale**	**ML54H60**	**(3669)**
		ML54H61	**(3669)**
		SL54H60	
		SL54H61	
♦ 54H60	Rochester	RC3130	
		54H60	
♦ 54H61	**Lansdale**	**ML54H61**	**(3669)**
	Rochester	RC3119	
		54H61	
♦ 54H62	**Lansdale**	**ML54H62**	**(3669)**
		SL54H62	
♦ 54H62	Rochester	RC3118	
		54H62	
♦ 54H71	**Lansdale**	**ML54H71**	**(3669)**
		SL54H71	
♦ 54H71	Rochester	RC3143	
		54H71	
♦ 54H72	**Lansdale**	**ML54H72**	**(3669)**
		SL54H72	
♦ 54H72	Rochester	RC3155	
		RC3163	
		54H72	
♦ 54H73	**Lansdale**	**ML54H73**	**(3669)**
		SL54H73	
♦ 54H73	Rochester	54H73	
♦ 54H74	**Lansdale**	**ML54H74**	**(3669)**
		SL54H74	
♦ 54H74	Rochester	54H74	
♦ 54H76	Rochester	54H76	
♦ 54H78	Rochester	54H78	
♦ 54H87	**Lansdale**	**ML54H87**	**(3669)**
	Rochester	RC3100	
		54H87	
54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
	Motorola	SN54LS00	
	National	DM54LS00	
	SGS-Thomson		
		T54LS00	
		54LS00	
	TI	SN54LS00	
54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
	SGS-Thomson		
		T54LS02	
		54LS02	
	TI	SN54LS02	
54LS03	Motorola	SN54LS03	
	National	DM54LS03	
	SGS-Thomson		
		54LS03	
	TI	SN54LS03	
54LS04	GoldStar	GD54LS04	
		54LS04	
	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
	SGS-Thomson		
		T54LS04	
		54LS04	
	TI	SN54LS04	
54LS05	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
	SGS-Thomson		
		T54LS05A	
		54LS05	
	TI	SN54LS05	
54LS08	GoldStar	GD54LS08	
	Lansdale	SL54LS08	
	Motorola	SN54LS08	
	National	DM54LS08	
	TI	SN54LS08	
54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
	SGS-Thomson		
		T54LS09	
		54LS09	
	TI	SN54LS09	
54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	Motorola	SN54LS10	
	National	DM54LS10	
	SGS-Thomson		
		T54LS10	
		54LS10	
	TI	SN54LS10	
54LS109	GoldStar	GD54LS109A	
	Lansdale	SL54LS109	
	Motorola	SN54LS109A	
	National	DM54LS109	
	TI	SN54LS109A	
54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	Motorola	SN54LS11	
	National	DM54LS11	
	SGS-Thomson		
		T54LS11	
		54LS11	
	TI	SN54LS11	
54LS112	GoldStar	GD54LS112	
	Lansdale	SL54LS112	
	Motorola	SN54LS112A	
	TI	SN54LS112A	
54LS113	Lansdale	SL54LS113	
	Motorola	SN54LS113A	
54LS114	Motorola	SN54LS114A	
	SGS-Thomson		
		T54LS114	
	TI	SN54LS114A	
♦ 54LS12	Motorola	SN54LS12	
	National	DM54LS12	
	TI	SN54LS12	
♦ 54LS122	Motorola	SN54LS122	
	TI	SN54LS122	
♦ 54LS123	GoldStar	GD54LS123	
	Motorola	SN54LS123	
	TI	SN54LS123	
54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125	
		SL54LS125A	
	Motorola	SN54LS125A	
	National	DM54LS125A	
	SGS-Thomson		
		54LS125A	
	TI	SN54LS125A	
54LS126	Lansdale	SL54LS126A	
	Motorola	SN54LS126A	
	SGS-Thomson		
		54LS126	
	TI	SN54LS126A	
54LS13	Lansdale	SL54LS13	
	Motorola	SN54LS13	
	SGS-Thomson		
		T54LS13	
	TI	SN54LS13	
♦ 54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	
	SGS-Thomson		
		T54LS132	
		54LS132	
♦ 54LS132	TI	SN54LS132	
54LS133	Motorola	SN54LS133	
54LS136	Lansdale	SL54LS136	
	Motorola	SN54LS136	
	National	DM54LS136	
	SGS-Thomson		
		T54LS136	
		54LS136	
	TI	SN54LS136	
54LS138	GoldStar	GD54LS138	
	Motorola	SN54LS138	
	National	DM54LS138	
	SGS-Thomson		
		T54LS138	
		54LS138	
	TI	SN54LS138	
54LS139	GoldStar	GD54LS139	
	Lansdale	54LS139	
	Motorola	SN54LS139	
	National	DM54LS139	
	SGS-Thomson		
		T54LS139	
		54LS139	
	TI	SN54LS139A	
54LS14	GoldStar	GD54LS14	
	Lansdale	SL54LS14	
	Motorola	SN54LS14	
	SGS-Thomson		
		T54LS14	
		54LS14	
	TI	SN54LS14	
54LS15	GoldStar	GD54LS15	
	Motorola	SN54LS15	
	SGS-Thomson		
		T54LS15	
		54LS15	
	TI	SN54LS15	
54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
	SGS-Thomson		
		T54LS151	
		54LS151	
	TI	SN54LS151	
54LS152	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	LogicDev	L7C166	
	Motorola	SN54LS153	
	National	DM54LS153	
		54LS153	
	TI	SN54LS153	
54LS153	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	Motorola	SN54LS153	
	National	DM54LS153	
		54LS152	
	TI	SN54LS153	
54LS155	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	Motorola	SN54LS155	
	National	DM54LS155	
	SGS-Thomson		
		T54LS155	
		54LS155	
	TI	SN54LS155A	
54LS156	Lansdale	SL54LS156	
	Motorola	SN54LS156	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
54LS156			(Cont'd)
	National	DM54LS156	
	SGS-Thomson	T54LS156	
		54LS156	
	TI	SN54LS156	
54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	Motorola	SN54LS157	
	National	DM54LS157	
	SGS-Thomson	T54LS157	
		54LS157	
	TI	SN54LS157	
54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	Motorola	SN54LS158	
	National	DM54LS158	
	SGS-Thomson	T54LS158	
		54LS158	
	TI	SN54LS158	
54LS160A	Lansdale	SL54LS160A	
	Motorola	SN54LS160A	
	TI	SN54LS160A	
54LS161	GoldStar	GD54LS161A	
	Motorola	SN54LS161A	
	National	DM54LS161A	
	TI	SN54LS161A	
54LS162A	Lansdale	SL54LS162A	
	Motorola	SN54LS162A	
	TI	SN54LS162A	
54LS163A	GoldStar	GD54LS163A	
	Lansdale	SL54LS163A	
	Motorola	SN54LS163A	
	National	DM54LS163A	
	TI	SN54LS163A	
54LS164	GoldStar	GD54LS164	
	Lansdale	SL54LS164	
	Motorola	SN54LS164	
	National	DM54LS164	
	TI	SN54LS164	
54LS165	GoldStar	GD54LS165	
	Motorola	SN54LS165	
	Rochester	54LS165	
	TI	SN54LS165A	
54LS168	Motorola	SN54LS168	
	National	DM54LS168A	
	SGS-Thomson	T54LS168	
54LS169	Lansdale	SL54LS169A	
	Motorola	SN54LS169	
	National	DM54LS169A	
	SGS-Thomson	T54LS169	
	TI	SN54LS169B	
54LS170	Lansdale	SL54LS170	
	Motorola	SN54LS170	
	SGS-Thomson	T54LS170	
		54LS170	
	TI	SN54LS170	
54LS173A	Lansdale	SL54LS173	
	Motorola	SN54LS173A	
	TI	SN54LS173A	
54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
	SGS-Thomson	T54LS174	
		54LS174	
	TI	SN54LS174	
54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
	SGS-Thomson	T54LS175	
		54LS175	
	TI	SN54LS175	
54LS181	Lansdale	SL54LS181	
	Motorola	SN54LS181	
	TI	SN54LS181	
♦ 54LS190	Motorola	SN54LS190	
	National	DM54LS190	
	TI	SN54LS190	
♦ 54LS191	GoldStar	GD54LS191	
	Lansdale	SL54LS191	
	Motorola	SN54LS191	
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♦ 54LS191			(Cont'd)
	National	DM54LS191	
	TI	SN54LS191	
54LS192	Lansdale	SL54LS192	
	Motorola	SN54LS192	
	SGS-Thomson	T54LS192	
		54LS192	
	TI	SN54LS192	
54LS193	GoldStar	GD54LS193	
	Motorola	SN54LS193	
	National	DM54LS193	
	SGS-Thomson	T54LS193	
		54LS193	
	TI	SN54LS193	
54LS194A	GoldStar	GD54LS194A	
	Lansdale	SL54LS194A	
	Motorola	SN54LS194A	
	SGS-Thomson	T54LS194A	
	TI	SN54LS194A	
54LS195	GoldStar	GD54LS195A	
	Motorola	SN54LS195A	
	SGS-Thomson	T54LS195A	
		54LS195A	
	TI	SN54LS195A	
♦ 54LS196	Motorola	SN54LS196	
	TI	SN54LS196	
♦ 54LS197	Lansdale	SL54LS197	
	Motorola	SN54LS197	
	TI	SN54LS197	
54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
	SGS-Thomson	T54LS20	
		54LS20	
	TI	SN54LS20	
54LS21	GoldStar	GD54LS21	
	Lansdale	SL54LS21	
	Motorola	SN54LS21	
	National	DM54LS21	
	TI	SN54LS21	
54LS22	Motorola	SN54LS22	
	SGS-Thomson	T54LS22	
		54LS22	
	TI	SN54LS22	
♦ 54LS221	GoldStar	GD54LS221	
	Motorola	SN54LS221	
	National	DM54LS221	
	TI	SN54LS221	
54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
	SGS-Thomson	T54LS240	
		54LS240	
	TI	SN54LS240	
54LS241	GoldStar	GD54LS241	
	Lansdale	SL54LS241	
	Motorola	SN54LS241	
	National	DM54LS241	
	TI	SN54LS241	
♦ 54LS242	GoldStar	GD54LS242	
	Lansdale	SL54LS242	
	Motorola	SN54LS242	
	National	DM54LS242	
	TI	SN54LS242	
♦ 54LS243	GoldStar	GD54LS243	
	Lansdale	SL54LS243	
	Motorola	SN54LS243	
	National	DM54LS243	
	TI	SN54LS243	
54LS244	GoldStar	GD54LS244	
	Lansdale	SL54LS244	
	Motorola	SN54LS244	
	TI	SN54LS244	
54LS245	GoldStar	GD54LS245	
	Lansdale	SL54LS245	
	Motorola	SN54LS245	
	National	DM54LS245	
	TI	SN54LS245	
54LS247	Motorola	SN54LS247	
	TI	SN54LS247	
54LS248	Motorola	SN54LS248	
	TI	SN54LS248	
54LS249	Motorola	SN54LS249	
	TI	SN54LS249	
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♦ 54LS251	GoldStar	GD54LS251	
	Lansdale	SL54LS251	
	Motorola	SN54LS251	
	National	DM54LS251	
	TI	SN54LS251	
54LS253	Lansdale	SL54LS253	
	Motorola	SN54LS253	
	National	DM54LS253	
	TI	SN54LS253	
54LS256	Lansdale	SL54LS256	
	Motorola	SN54LS256	
	SGS-Thomson	T54LS256	
54LS257A	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
	National	DM54LS257B	
	TI	SN54LS257B	
54LS258A	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	DM54LS258B	
	SGS-Thomson	T54LS258A	
		54LS258	
	TI	SN54LS258B	
54LS259	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
	SGS-Thomson	T54LS259	
		54LS259	
	TI	SN54LS259B	
54LS26	GoldStar	GD54LS26	
	Lansdale	SL54LS26	
	Motorola	SN54LS26	
	National	DM54LS26	
	TI	SN54LS26	
54LS260	Lansdale	SL54LS260	
	Motorola	SN54LS260	
	SGS-Thomson	T54LS260	
54LS266	Lansdale	SL54LS266	
	Motorola	SN54LS266	
	SGS-Thomson	T54LS266	
		54LS266	
	TI	SN54LS266	
54LS27	GoldStar	GD54LS27	
	Motorola	SN54LS27	
	National	DM54LS27	
	SGS-Thomson	T54LS27	
		54LS27	
	TI	SN54LS27	
54LS273	GoldStar	GD54LS273	
	Lansdale	SL54LS273	
	Motorola	SN54LS273	
	Philips	54LS273	
	SGS-Thomson	T54LS273	
		54LS273	
	TI	SN54LS273	
54LS279	Motorola	SN54LS279	
	National	DM54LS279	
	SGS-Thomson	T54LS279	
		54LS279	
	TI	SN54LS279A	
54LS28	Motorola	SN54LS28	
	SGS-Thomson	T54LS28	
	TI	SN54LS28	
54LS283	GoldStar	GD54LS283	
	Lansdale	SL54LS283	
	Motorola	SN54LS283	
	National	DM54LS283	
	SGS-Thomson	54LS283	
	TI	SN54LS283	
♦ 54LS290	Motorola	SN54LS290	
	SGS-Thomson	54LS290	
	TI	SN54LS290	
♦ 54LS293	Motorola	SN54LS293	
	SGS-Thomson	T54LS293	
		54LS293	
♦ 54LS293	TI	SN54LS293	
54LS298	GoldStar	GD54LS298	
	Lansdale	SL54LS298	
			(Continued)
54LS298			(Cont'd)
	Motorola	SN54LS298	
	SGS-Thomson	54LS298	
	TI	SN54LS298	
54LS299	GoldStar	GD54LS299	
	Motorola	SN54LS299	
	TI	SN54LS299	
54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
	Motorola	SN54LS30	
	National	DM54LS30	
	SGS-Thomson	T54LS30	
		54LS30	
	TI	SN54LS30	
54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
	SGS-Thomson	T54LS32	
		54LS32	
	TI	SN54LS32	
54LS322	GoldStar	GD54LS322	
	Motorola	SN54LS322A	
	TI	SN54LS322A	
54LS323	Motorola	SN54LS323	
	TI	SN54LS323	
54LS33	Lansdale	SL54LS33	
	Motorola	SN54LS33	
	SGS-Thomson	T54LS33	
	TI	SN54LS33	
54LS352	Lansdale	SL54LS352	
	Motorola	SN54LS352	
	National	DM54LS352	
	SGS-Thomson	T54LS352	
	TI	SN54LS352	
54LS353	Lansdale	SL54LS353	
	Motorola	SN54LS353	
	SGS-Thomson	T54LS353	
	TI	SN54LS353	
54LS365	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	DM54LS365A	
	SGS-Thomson	T54LS365A	
		54LS365	
	TI	SN54LS365A	
54LS366	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
	SGS-Thomson	T54LS366A	
		54LS366	
	TI	SN54LS366A	
54LS367	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
	SGS-Thomson	T54LS367A	
		54LS367	
	TI	SN54LS367A	
54LS368	GoldStar	GD54LS368A	
	Motorola	SN54LS368A	
	National	DM54LS368A	
	SGS-Thomson	T54LS368A	
		54LS368	
	TI	SN54LS368A	
54LS37	Lansdale	SL54LS37	
	Motorola	SN54LS37	
	National	DM54LS37	
	SGS-Thomson	T54LS37	
		54LS37	
	TI	SN54LS37	
♦ 54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
	Motorola	SN54LS373	
	National	DM54LS373	
	SGS-Thomson	T54LS373	
		54LS373	
♦ 54LS373	TI	SN54LS373	
54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
54LS374			(Cont'd)
	SGS-Thomson	T54LS374	
		54LS374	
	TI	SN54LS374	
54LS375	Lansdale	SL54LS375	
	Motorola	SN54LS375	
	TI	SN54LS375	
54LS377	GoldStar	GD54LS377	
	Lansdale	SL54LS377	
	Motorola	SN54LS377	
	SGS-Thomson	T54LS377	
		54LS377	
	TI	SN54LS377	
54LS378	Lansdale	SL54LS378	
	Motorola	SN54LS378	
	SGS-Thomson	T54LS378	
	TI	SN54LS378	
54LS379	Motorola	SN54LS379	
	SGS-Thomson	T54LS379	
	TI	SN54LS379	
54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
	SGS-Thomson	T54LS38	
		54LS38	
	TI	SN54LS38	
♦ 54LS386	Motorola	SN54LS386	
	TI	SN54LS385	
		SN54LS386A	
♦ 54LS390	GoldStar	GD54LS390	
	Lansdale	SL54LS390	
	Motorola	SN54LS390	
	SGS-Thomson	T54LS390	
		54LS390	
♦ 54LS390	TI	SN54LS390	
♦ 54LS393	GoldStar	GD54LS393	
	Lansdale	SL54LS393	
	Motorola	SN54LS393	
	SGS-Thomson	T54LS393	
	TI	SN54LS393	
♦ 54LS398	Motorola	SN54LS398	
	TI	SN54LS396	
♦ 54LS399	Motorola	SN54LS399	
	TI	SN54LS399	
54LS40	Lansdale	SL54LS40	
	Motorola	SN54LS40	
	SGS-Thomson	T54LS40	
		54LS40	
	TI	SN54LS40	
54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	DM54LS42	
	SGS-Thomson	T54LS42	
		54LS42	
	TI	SN54LS42	
54LS47	Motorola	SN54LS47	
	TI	SN54LS47	
54LS48	Motorola	SN54LS48	
	National	DM54LS471	
	TI	SN54LS48	
54LS49	TI	SN54LS49	
54LS490	**Lansdale**	**SL54LS490**	**(3674)**
	Motorola	SN54LS490	
	SGS-Thomson	T54LS490	
	TI	SN54LS490	
54LS503	GoldStar	GD54LS51	
	Lansdale	SL54LS51	
	Motorola	SN54LS51	
	National	54LS51	
	TI	SN54LS51	
54LS51	GoldStar	GD54LS51	
	Lansdale	SL54LS51	
	Motorola	SN54LS51	
	National	54LS503	
	TI	SN54LS51	
54LS54	Lansdale	SL54LS54	
	Motorola	SN54LS54	
			(Continued)
54LS54			(Cont'd)
	SGS-Thomson	T54LS54	
		54LS54	
	TI	SN54LS54	
♦ 54LS540	**Lansdale**	**SL54LS540**	**(3674)**
	Motorola	SN54LS540	
	TI	SN54LS540	
♦ 54LS541	**Lansdale**	**SL54LS541**	**(3674)**
	Motorola	SN54LS541	
	TI	SN54LS541	
54LS55	GoldStar	GD54LS55	
	Motorola	SN54LS55	
	SGS-Thomson	T54LS55	
		54LS55	
54LS670	GoldStar	GD54LS670	
	Lansdale	**SL54LS670**	**(3674)**
	Motorola	SN54LS670	
	National	DM54LS670	
	SGS-Thomson	54LS670	
	TI	SN54LS670	
54LS74	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
	SGS-Thomson	T54LS74A	
		54LS74	
	TI	SN54LS74A	
54LS83A	Lansdale	SL54LS83A	
	Motorola	SN54LS83A	
	National	DM54LS83A	
	SGS-Thomson	54LS83A	
	TI	SN54LS83A	
54LS85	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS848	
		SN54LS85	
	National	DM54LS85	
	TI	SN54LS85	
♦ 54LS86	GoldStar	GD54LS86	
	Lansdale	SL54LS86	
	Motorola	SN54LS86	
	National	DM54LS86	
	TI	SN54LS86A	
♦ 54LS89	GoldStar	GD54LS90	
	Lansdale	SL54LS90	
	Motorola	SN54LS90	
	TI	SN54LS90	
♦ 54LS90	GoldStar	GD54LS90	
	Lansdale	SL54LS90	
	Motorola	SN54LS90	
	TI	SN54LS90	
♦ 54LS92	GoldStar	GD54LS92	
	Lansdale	SL54LS92	
	Motorola	SN54LS92	
	TI	SN54LS92	
♦ 54LS93	GoldStar	GD54LS93	
	Lansdale	SL54LS93	
	Motorola	SN54LS93	
	SGS-Thomson	T54LS93	
		54LS93	
♦ 54LS93	TI	SN54LS93	
54LS95B	GoldStar	GD54LS95B	
	Lansdale	SL54LS95B	
	Motorola	SN54LS95B	
	TI	SN54LS95B	
♦ 54L93	Rochester	54L93	
♦ 54S00	GoldStar	GD54S00	
	Lansdale	**SL54S00**	**(3674)**
	National	DM54S00	
	Rochester	54S00	
	TI	SN54S00	
♦ 54S02	GoldStar	GD54S02	
	Lansdale	**SL54S02**	**(3674)**
	National	DM54S02	
	Rochester	54S02	
	TI	SN54S02	
♦ 54S04	GoldStar	GD54S04	
	Lansdale	**SL54S04**	**(3674)**
	National	DM54S04	
	Rochester	54S04	
	TI	SN54S04	
♦ 54S05	GoldStar	GD54S05	
	Lansdale	**SL54S05**	**(3674)**
	TI	SN54S05	
♦ 54S08	GoldStar	GD54S08	
	Lansdale	**SL54S08**	**(3674)**
	National	DM54S08	
			(Continued)
♦ 54S08			(Cont'd)
	Rochester	54S08	
	TI	SN54S08	
♦ 54S09	Rochester	54S09	
	TI	SN54S09	
♦ 54S10	GoldStar	GD54S10	
	Lansdale	**SL54S10**	**(3674)**
	National	DM54S10	
	Rochester	54S10	
	TI	SN54S10	
♦ 54S109	**Lansdale**	**SL54S11**	**(3674)**
	National	DM54S11	
	Rochester	54S11	
	TI	SN54S11	
♦ 54S11	**Lansdale**	**SL54S11**	**(3674)**
	National	DM54S11	
	Rochester	54S11	
	TI	SN54S11	
♦ 54S112	GoldStar	GD54S112	
	Lansdale	**SL54S112**	**(3674)**
	National	DM54S112	
	Rochester	54S112	
	TI	SN54S112	
♦ 54S113	National	DM54S113	
	Rochester	54S113	
	TI	SN54S113	
♦ 54S114	Rochester	54S114	
	TI	SN54S114	
♦ 54S132	TI	SN54S132	
♦ 54S133	GoldStar	GD54S133	
	Lansdale	**SL54S133**	**(3674)**
	National	DM54S133	
	Rochester	54S133	
	TI	SN54S133	
♦ 54S134	Rochester	54S134	
	TI	SN54S134	
♦ 54S135	Rochester	54S135	
	TI	SN54S135	
♦ 54S137	Rochester	54S137	
♦ 54S138	GoldStar	GD54S138	
	Lansdale	**SL54S138**	**(3674)**
	National	DM54S138	
	Rochester	54S138	
	TI	SN54S138	
♦ 54S139	GoldStar	GD54S139	
	Lansdale	**SL54S139**	**(3674)**
	National	DM54S139	
	Rochester	54S139	
	TI	SN54S139	
♦ 54S140	**Lansdale**	**SL54S140**	**(3674)**
	National	DM54S140	
	Rochester	54S140	
	TI	SN54S140	
♦ 54S15	Rochester	54S15	
	TI	SN54S15	
♦ 54S151	**Lansdale**	**SL54S151**	**(3674)**
	National	DM54S151	
	Rochester	54S151	
	TI	SN54S151	
♦ 54S153	GoldStar	GD54S153	
	Lansdale	**SL54S153**	**(3674)**
	National	DM54S153	
	Rochester	54S153	
	TI	SN54S153	
♦ 54S157	GoldStar	GD54S157	
	Lansdale	**SL54S157**	**(3674)**
	National	DM54S157	
	Rochester	54S157	
	TI	SN54S157	
♦ 54S158	GoldStar	GD54S158	
	Lansdale	**SL54S158**	**(3674)**
	National	DM54S158	
	Rochester	54S158	
	TI	SN54S158	
♦ 54S167	Rochester	54S168	
♦ 54S174	GoldStar	GD54S174	
	Lansdale	**SL54S174**	**(3674)**
	National	DM54S174	
	Rochester	54S174	
	TI	SN54S174	
♦ 54S175	GoldStar	GD54S175	
	Lansdale	**SL54S175**	**(3674)**
	National	DM54S175	
	Rochester	54S175	
	TI	SN54S175	
♦ 54S178	Rochester	54S178	
♦ 54S189	**Lansdale**	**SL54S189**	**(3674)**
	National	DM54S189	
		DM54S189A	
♦ 54S189	Rochester	54S189	
♦ 54S194	**Lansdale**	**SL54S194**	**(3674)**
	National	DM54S194	
			(Continued)
♦ 54S194			(Cont'd)
	Rochester	54S194	
	TI	SN54S194	
♦ 54S20	GoldStar	GD54S20	
	Lansdale	**SL54S20**	**(3674)**
	National	DM54S20	
	Rochester	54S20	
	TI	SN54S20	
♦ 54S22	Rochester	54S22	
	TI	SN54S22	
♦ 54S253	**Lansdale**	**SL54S253**	**(3674)**
	National	DM54S253	
	Rochester	54S253	
♦ 54S258	**Lansdale**	**SL54S258**	**(3674)**
	National	DM54S258	
	Rochester	54S258	
	TI	SN54S258	
♦ 54S260	**Lansdale**	**SL54S260**	**(3674)**
	Rochester	54S260	
	TI	SN54S260	
♦ 54S280	GoldStar	GD54S280	
	Lansdale	**SL54S280**	**(3674)**
	National	DM54S280	
	TI	SN54S280	
♦ 54S289	Rochester	54S289	
	TI	SN54S299	
♦ 54S30	GoldStar	GD54S30	
	National	DM54S30	
	Rochester	54S30	
	TI	SN54S30	
♦ 54S32	GoldStar	GD54S32	
	Lansdale	**SL54S32**	**(3674)**
	National	DM54S32	
	TI	SN54S32	
♦ 54S40	**Lansdale**	**SL54S40**	**(3674)**
	National	DM54S40	
	Rochester	54S40	
	TI	SN54S40	
♦ 54S51	GoldStar	GD54S51	
	Lansdale	**SL54S51**	**(3674)**
	Rochester	54S51	
	TI	SN54S51	
♦ 54S64	GoldStar	GD54S64	
	Lansdale	**SL54S64**	**(3674)**
	National	DM54S64	
	TI	SN54S64	
♦ 54S65	Rochester	54S65	
	TI	SN54S65	
♦ 54S74	GoldStar	GD54S74	
	Lansdale	**SL54S74**	**(3674)**
	Rochester	54S74	
	TI	SN54S74	
♦ 54S86	GoldStar	GD54S86	
	Lansdale	**SL54S86**	**(3674)**
	TI	SN54S86	
♦ 5400	**Lansdale**	**ML5400**	**(3668)**
		SL5400	
♦ 5400	Rochester	5400	
♦ 5401	**Lansdale**	**ML5401**	**(3668)**
		SL5401	
♦ 5401	Rochester	5401	
♦ 5402	**Lansdale**	**ML5402**	**(3668)**
		SL5402	
♦ 5402	Rochester	5402	
♦ 5403	**Lansdale**	**ML5403**	**(3668)**
		SL5403	
♦ 5403	Rochester	5403	
♦ 5404	**Lansdale**	**ML5404**	**(3668)**
		SL5404	
♦ 5404	Rochester	5404	
♦ 5405	**Lansdale**	**ML5405**	**(3668)**
		SL5405	
♦ 5406	**Lansdale**	**ML5406**	**(3668)**
		SL5406	
♦ 5406	Rochester	5406	
♦ 5407	**Lansdale**	**ML5407**	**(3668)**
		SL5407	
♦ 5407	Rochester	5407	
♦ 5408	**Lansdale**	**ML5408**	**(3668)**
		SL5408	
♦ 5408	Rochester	5408	
♦ 5409	**Lansdale**	**ML5409**	**(3668)**
		SL5409	
♦ 5409	Rochester	5409	
♦ 54107	**Lansdale**	**ML54107**	**(3668)**
		SL54107	
♦ 54107	Rochester	54107	
♦ 5411	Lansdale	SL5411	
	Rochester	5411	
♦ 5412	Lansdale	ML5412	
	Rochester	5412	
♦ 54126	Lansdale	SL54126	
	Rochester	54126	
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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 5413	**Lansdale**	**ML5413**	**(3668)**
		SL5413	
♦ 5413	Rochester	5413	
♦ 54132	**Lansdale**	**ML54132**	**(3668)**
		SL54132	
♦ 54132	Rochester	54132	
♦ 5414	**Lansdale**	**ML5414**	**(3668)**
		SL5414	
♦ 5414	Rochester	5414	
♦ 54141	Lansdale	ML54141	
	Rochester	54141	
♦ 54144	Rochester	54144	
♦ 54145	Lansdale	ML54145	
		SL54145	
♦ 54145	Rochester	54145	
♦ 54150	**Lansdale**	**ML54150**	**(3668)**
		SL54150	
♦ 54150	Rochester	54150	
♦ 54151	**Lansdale**	**ML54151**	**(3668)**
		SL54151	
♦ 54151	Rochester	54151	
♦ 54152	**Lansdale**	**ML54152**	**(3668)**
		SL54152	
♦ 54152	Rochester	54152	
♦ 54154	**Lansdale**	**ML54154**	**(3668)**
		ML9311	
		SL54154	
♦ 54154	Rochester	54154	
♦ 54155	**Lansdale**	**ML54155**	**(3668)**
		SL54155	
♦ 54155	Rochester	54155	
♦ 54156	Lansdale	ML54156	
		SL54156	
♦ 54156	Rochester	54156	
♦ 54157	Lansdale	SL54157	
	Rochester	54157	
♦ 5416	**Lansdale**	**ML5416**	**(3668)**
		SL5416	
♦ 5416	Rochester	5416	
♦ 54160	**Lansdale**	**ML54160**	**(3668)**
		ML9310	
		SL54160	
♦ 54160	Rochester	54160	
♦ 54161	**Lansdale**	**ML54161**	**(3668)**
		ML9316	
		ML9322	
		SL54161	
♦ 54162	**Lansdale**	**ML54162**	**(3668)**
	Rochester	54162	
♦ 54164	Lansdale	ML54164	
		SL54164	
♦ 54164	Rochester	54164	
♦ 54165	**Lansdale**	**ML54165**	**(3668)**
		SL54165	
♦ 54165	Rochester	54165	
♦ 54166	Lansdale	ML54166	
		SL54166	
♦ 54166	Rochester	54166	
♦ 54167	**Lansdale**	**ML54167**	**(3668)**
	Rochester	54167	
♦ 5417	**Lansdale**	**ML5417**	**(3668)**
		SL5417	
♦ 5417	Rochester	5417	
♦ 54173	Lansdale	SL54173	
	Rochester	54173	
♦ 54174	**Lansdale**	**ML54174**	**(3668)**
		SL54174	
♦ 54174	Rochester	54174	
♦ 54176	**Lansdale**	**ML54176**	**(3668)**
	Rochester	54176	
♦ 54177	**Lansdale**	**ML54177**	**(3668)**
	Rochester	54177	
♦ 54178	Lansdale	ML54178	
	Rochester	54178	
♦ 54179	Lansdale	ML54179	
	Rochester	54179	
♦ 54180	**Lansdale**	**ML54180**	**(3668)**
		SL54180	
♦ 54180	Rochester	54180	
♦ 54181	**Lansdale**	**ML54181**	**(3668)**
		SL54181	
♦ 54181	Rochester	54181	
		7181	
		9341	
♦ 54182	**Lansdale**	**ML54182**	**(3668)**
		SL54182	
♦ 54182	Rochester	54182	
♦ 54185	Rochester	54185	
♦ 54190	**Lansdale**	**ML54190**	**(3668)**
		SL54190	
♦ 54190	Rochester	54190	
♦ 54192	**Lansdale**	**ML54192**	**(3668)**
		SL54192	
♦ 54192	Rochester	54192	
♦ 54193	**Lansdale**	**ML54193**	**(3668)**
		SL54193	
♦ 54193	Rochester	54193	
♦ 54195	**Lansdale**	**ML54195**	**(3668)**
		SL54195	
♦ 54195	Rochester	54195	
♦ 54196	**Lansdale**	**ML54196**	**(3668)**
	Rochester	54196	
♦ 54197	**Lansdale**	**ML54197**	**(3668)**
	Rochester	54197	
♦ 54198	Lansdale	ML54198	
		SL54198	
♦ 54198	Rochester	54198	
♦ 54199	Lansdale	ML54199	
		SL54199	
♦ 54199	Rochester	54199	
♦ 5420	**Lansdale**	**ML5420**	**(3668)**
		SL5420	
♦ 5420	Rochester	5420	
♦ 5421	Lansdale	SL5421	
	Rochester	5421	
♦ 5422	Rochester	5422	
♦ 54221	Lansdale	SL54221	
	Rochester	54221	
♦ 5423	**Lansdale**	**ML5423**	**(3668)**
	Rochester	5423	
♦ 54251	Rochester	54251	
♦ 5426	**Lansdale**	**ML5426**	**(3668)**
		SL5426	
♦ 5426	Rochester	5426	
♦ 5427	**Lansdale**	**ML5427**	**(3668)**
		SL5427	
♦ 5427	Rochester	5427	
♦ 54293	**Lansdale**	**ML54293**	**(3668)**
	Rochester	54293	
♦ 5430	**Lansdale**	**ML5430**	**(3668)**
		SL5430	
♦ 5430	Rochester	5430	
♦ 5432	Lansdale	SL5432	
	Rochester	5432	
54365	Rochester	54365	
♦ 5437	**Lansdale**	**ML5437**	**(3668)**
		SL5437	
♦ 5437	Rochester	5437	
♦ 5438	**Lansdale**	**ML5438**	**(3668)**
		SL5438	
♦ 5438	Rochester	5438	
♦ 5440	**Lansdale**	**ML5440**	**(3668)**
		SL5440	
♦ 5440	Rochester	5440	
♦ 5441	Lansdale	ML5441A	
♦ 5442	**Lansdale**	**ML5442**	**(3668)**
		SL5442	
♦ 5442	Rochester	5442	
♦ 5443	**Lansdale**	**ML5443**	**(3668)**
	Rochester	5443	
♦ 5444	**Lansdale**	**ML5444**	**(3668)**
	Rochester	5444	
♦ 5448	Lansdale	ML5448	
		SL5448	
♦ 5448	Rochester	5448	
♦ 5449	Lansdale	ML5449	
	Rochester	5449	
♦ 5450	**Lansdale**	**ML5450**	**(3668)**
		SL5450	
♦ 5450	Rochester	5450	
♦ 5451	**Lansdale**	**ML5451**	**(3668)**
		SL5451	
♦ 5453	**Lansdale**	**ML5453**	**(3668)**
		SL5453	
♦ 5453	Rochester	5453	
♦ 5454	**Lansdale**	**ML5454**	**(3668)**
		SL5454	
♦ 5454	Rochester	5454	
♦ 5460	Lansdale	ML5460	
		SL5460	
♦ 5460	Rochester	5460	
♦ 5470	**Lansdale**	**ML5470**	**(3668)**
		SL5470	
♦ 5470	Rochester	5470	
♦ 5472	**Lansdale**	**ML5472**	**(3668)**
		SL5472	
♦ 5472	Rochester	5472	
♦ 5473	**Lansdale**	**ML5473**	**(3668)**
		SL5473	
♦ 5474	Lansdale	SL5474	
	Rochester	5474	
♦ 5475	**Lansdale**	**ML5475**	**(3668)**
		SL5475	
♦ 5476	Lansdale	SL5476	
	Rochester	5476	
♦ 5477	**Lansdale**	**ML5477**	**(3668)**
	Rochester	5477	
♦ 5480	Lansdale	SL5480	
	Rochester	5480	
♦ 5482	Rochester	5482	
5483	Rochester	5483	
♦ 5483	Lansdale	SL5483	
♦ 5485	Rochester	5485	
♦ 5486	**Lansdale**	**ML5486**	**(3668)**
		SL5486	
♦ 5490	Lansdale	ML5490	
		SL5490	
♦ 5490	Rochester	5490	
♦ 5491	**Lansdale**	**ML5491A**	**(3668)**
	Rochester	5491	
♦ 5492	Lansdale	ML5492	
		SL5492	
♦ 5492	Rochester	5492	
♦ 5493	Lansdale	ML5493	
		SL5493	
♦ 5493	Rochester	5493	
♦ 5494	**Lansdale**	**ML5494**	**(3668)**
		SL5494	
♦ 5494	Rochester	5494	
♦ 5495	Lansdale	ML5495	
		SL5495	
♦ 5495	Rochester	5495	
♦ 5496	**Lansdale**	**ML5496**	**(3668)**
		SL5496	
♦ 5496	Rochester	5496	
6551	Hughes	H1823	
6552	Hughes	H1823	
6852	SMC	COM5025	
♦ 7037	Rochester	7037	
♦ 7123	Rochester	7123	
74ACTQ00	National	74ACTQ02	
74ACTQ02	National	74ACTQ00	
74ACTQ04	National	74ACTQ08	
74ACTQ08	National	74ACTQ04	
74ACTQ10	National	74ACTQ14	
74ACTQ14	National	74ACTQ10	
74ACTQ153	National	74ACTQ16240	
74ACTQ16240	National	74ACTQ153	
74ACTQ16244	National	74ACTQ16373	
74ACTQ16373	National	74ACTQ16244	
74ACTQ16374	National	74ACTQ16540	
74ACTQ16540	National	74ACTQ16374	
74ACTQ16541	National	74ACTQ16543	
74ACTQ16543	National	74ACTQ16541	
74ACTQ16646	National	74ACTQ240	
74ACTQ240	National	74ACTQ16646	
74ACTQ241	National	74ACTQ244	
74ACTQ244	National	74ACTQ241	
74ACTQ245	National	74ACTQ273	
74ACTQ273	National	74ACTQ245	
74ACTQ32	National	74ACTQ3283T	
74ACTQ3283T	National	74ACTQ32	
74ACTQ373	National	74ACTQ374	
74ACTQ374	National	74ACTQ373	
74ACTQ377	National	74ACTQ533	
74ACTQ533	National	74ACTQ377	
74ACTQ534	National	74ACTQ543	
74ACTQ543	National	74ACTQ534	
74ACTQ544	National	74ACTQ563	
74ACTQ563	National	74ACTQ544	
74ACTQ564	National	74ACTQ573	
74ACTQ573	National	74ACTQ564	
74ACTQ574	National	74ACTQ646	
74ACTQ646	National	74ACTQ574	
74ACTQ652	National	74ACTQ657	
74ACTQ657	National	74ACTQ652	
74ACTQ821	National	74ACTQ827	
74ACTQ827	National	74ACTQ821	
74ACTQ841	National	74ACTQ843	
74ACTQ843	National	74ACTQ841	
74ACT00	Harris	CD74ACT00	
	Motorola	MC74ACT00	
	Toshiba	**TC74ACT00**	**(3836)**
74ACT02	Harris	CD74ACT02	
	Motorola	MC74ACT02	
	Toshiba	**TC74ACT02**	**(3836)**
74ACT04	Harris	CD74ACT04	
	Motorola	MC74ACT04	
	Toshiba	**TC74ACT04**	**(3836)**
♦ 74ACT08	Harris	CD74ACT08	
	Motorola	MC74ACT08	
	Toshiba	**TC74ACT08**	**(3836)**
74ACT10	Harris	CD74ACT10	
	Motorola	MC74ACT10	
	Toshiba	**TC74ACT10**	**(3836)**
♦ 74ACT1010	National	74ACT1016	
♦ 74ACT1017	Harris	CD74ACT109	
	Motorola	MC74ACT109	
	National	74ACT109	
	Toshiba	**TC74ACT109**	**(3836)**
74ACT109	Harris	CD74ACT109	
	Motorola	MC74ACT109	
	Toshiba	**TC74ACT109**	**(3836)**
74ACT1110	TI	74ACT11109	
74ACT112	Harris	CD74ACT112	
	Toshiba	**TC74ACT112**	**(3836)**
74ACT125	Motorola	MC74ACT125	
74ACT138	Harris	CD74ACT138	
	Motorola	MC74ACT138	
	Toshiba	**TC74ACT138**	**(3836)**
74ACT139	Harris	CD74ACT139	
	Motorola	MC74ACT139	
	Toshiba	**TC74ACT139**	**(3836)**
74ACT14	Harris	CD74ACT14	
	Motorola	MC74ACT14	
	Toshiba	**TC74ACT14**	**(3836)**
74ACT151	Harris	CD74ACT151	
	Motorola	MC74ACT151	
	Toshiba	**TC74ACT151**	**(3836)**
74ACT153	Harris	CD74ACT153	
	Motorola	MC74ACT153	
	Toshiba	TC74ACT153	
74ACT157	Harris	CD74ACT157	
	Motorola	MC74ACT157	
	Toshiba	**TC74ACT157**	**(3836)**
74ACT158	Harris	CD74ACT158	
	Motorola	MC74ACT158	
	Toshiba	**TC74ACT158**	**(3836)**
74ACT161	Harris	CD74ACT161	
	Motorola	MC74ACT160	
		MC74ACT161	
	Toshiba	**TC74ACT161**	**(3836)**
74ACT163	Harris	CD74ACT163	
	Motorola	MC74ACT163	
	TI	74ACT16245	
	Toshiba	**TC74ACT163**	**(3836)**
74ACT164	Harris	CD74ACT164	
	Toshiba	**TC74ACT164**	**(3836)**
74ACT169	Harris	CD74ACT174	
	Motorola	MC74ACT174	
	National	74ACT174	
	Toshiba	**TC74ACT174**	**(3836)**
74ACT174	Harris	CD74ACT174	
	Motorola	MC74ACT174	
	National	74ACT169	
	Toshiba	**TC74ACT174**	**(3836)**
74ACT175	Harris	CD74ACT175	
	Toshiba	**TC74ACT175**	**(3836)**
74ACT181	National	74ACT182	
74ACT182	National	74ACT181	
74ACT240	Harris	CD74ACT238	
		CD74ACT240	
	Motorola	MC74ACT240	
	Toshiba	**TC74ACT240**	**(3836)**
74ACT241	Harris	CD74ACT241	
	Motorola	MC74ACT241	
	Toshiba	**TC74ACT241**	**(3836)**
74ACT244	Harris	CD74ACT244	
	Motorola	MC74ACT244	
	Toshiba	**TC74ACT244**	**(3836)**

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74ACT245	Harris	CD74ACT245	
	Motorola	MC74ACT245	
	Toshiba	**TC74ACT245**	(3836)
74ACT251	Harris	CD74ACT251	
	Motorola	MC74ACT251	
	Toshiba	**TC74ACT251**	(3836)
74ACT253	Harris	CD74ACT253	
	Motorola	MC74ACT253	
	Toshiba	TC74ACT253	
74ACT257	Harris	CD74ACT257	
	Motorola	MC74ACT256	
		MC74ACT257	
	Toshiba	**TC74ACT257**	(3836)
74ACT258	Harris	CD74ACT258	
	Motorola	MC74ACT258	
	Toshiba	**TC74ACT258**	(3836)
74ACT2708	Motorola	MC74ACT259	
74ACT273	Harris	CD74ACT273	
	Motorola	MC74ACT273	
	Toshiba	**TC74ACT273**	(3836)
74ACT280	Harris	CD74ACT280	
	Toshiba	**TC74ACT280**	(3836)
74ACT283	Harris	CD74ACT283	
	Toshiba	**TC74ACT283**	(3836)
74ACT299	Harris	CD74ACT299	
	Motorola	MC74ACT299	
	Toshiba	**TC74ACT299**	(3836)
74ACT32	Harris	CD74ACT32	
	Motorola	MC74ACT32	
	Toshiba	**TC74ACT32**	(3836)
74ACT323	Harris	CD74ACT323	
	Motorola	MC74ACT323	
74ACT350	Motorola	MC74ACT350	
74ACT367	National	74ACT368	
74ACT368	National	74ACT367	
74ACT373	Harris	CD74ACT373	
	Motorola	MC74ACT373	
	Toshiba	**TC74ACT373**	(3836)
74ACT374	Harris	CD74ACT374	
	Motorola	MC74ACT374	
	Toshiba	**TC74ACT374**	(3836)
74ACT377	Motorola	MC74ACT377	
	Toshiba	**TC74ACT377**	(3836)
♦ 74ACT378	Motorola	MC74ACT378	
74ACT381	National	74ACT399	
74ACT399	National	74ACT381	
74ACT520	**Toshiba**	**TC74ACT520**	(3836)
74ACT521	Motorola	MC74ACT521	
	Toshiba	TC74ACT521	
♦ 74ACT533	Harris	CD74ACT533	
	Motorola	MC74ACT533	
	Toshiba	**TC74ACT533**	(3836)
74ACT534	Harris	CD74ACT534	
	Motorola	MC74ACT534	
	Toshiba	**TC74ACT534**	(3836)
74ACT540	Harris	CD74ACT540	
	Motorola	MC74ACT540	
	Toshiba	**TC74ACT540**	(3836)
74ACT541	Harris	CD74ACT541	
	Motorola	MC74ACT541	
	Toshiba	**TC74ACT541**	(3836)
74ACT543	National	74ACT544	
74ACT544	National	74ACT543	
74ACT563	Harris	CD74ACT563	
	Motorola	MC74ACT563	
	Toshiba	**TC74ACT563**	(3836)
74ACT564	Harris	CD74ACT564	
	Motorola	MC74ACT564	
	Toshiba	**TC74ACT564**	(3836)
74ACT573	Harris	CD74ACT573	
	Motorola	MC74ACT573	
	Toshiba	**TC74ACT573**	(3836)
74ACT574	Harris	CD74ACT574	
	Motorola	MC74ACT574	
	Toshiba	**TC74ACT574**	(3836)
74ACT646	Harris	CD74ACT646	
	Motorola	MC74ACT646	
	Toshiba	**TC74ACT646**	(3836)
74ACT657	National	74ACT705	
74ACT705	National	74ACT657	
74ACT715	National	74ACT715R	
74ACT715R	National	74ACT715	
74ACT74	Harris	CD74ACT74	
	Motorola	MC74ACT74	
	Toshiba	**TC74ACT74**	(3836)
74ACT818	Motorola	MC74ACT810	
74ACT821	AMD	AM29C821A	
	Toshiba	**TC74ACT821**	(3836)
♦ 74ACT822	National	74ACT823	
	Toshiba	**TC74ACT823**	(3836)
74ACT823	AMD	AM29C823A	
	Toshiba	**TC74ACT823**	(3836)
74ACT825	Motorola	MC74ACT825	
	Toshiba	**TC74ACT825**	(3836)
74ACT827	AMD	AM29C827A	
74ACT828	AMD	AM29C828A	
74ACT841	AMD	AM29C841A	
	Toshiba	**TC74ACT841**	(3836)
♦ 74ACT842	Motorola	MC74ACT843	
	National	74ACT843	
	Toshiba	**TC74ACT843**	(3836)
74ACT843	AMD	AM29C843A	
	Motorola	MC74ACT843	
	Toshiba	**TC74ACT843**	(3836)
74ACT845	Motorola	MC74ACT845	
74ACT899	Harris	CD74AC00	
	Motorola	MC74AC00	
	National	74AC00	
	Toshiba	**TC74AC00**	(3836)
74AC00	Harris	CD74AC00	
	Motorola	MC74AC00	
	National	74ACT899	
	Toshiba	**TC74AC00**	(3836)
74AC02	Harris	CD74AC02	
	Motorola	MC74AC02	
	Toshiba	**TC74AC02**	(3836)
74AC04	Harris	CD74AC04	
	Motorola	MC74AC04	
	Toshiba	**TC74AC04**	(3836)
74AC08	Harris	CD74AC08	
	Motorola	MC74AC08	
	Toshiba	**TC74AC08**	(3836)
74AC10	Harris	CD74AC10	
	Motorola	MC74AC10	
	Toshiba	**TC74AC10**	(3836)
♦ 74AC1017	Harris	CD74AC109	
	Motorola	MC74AC109	
	National	74AC109	
	Toshiba	**TC74AC109**	(3836)
74AC109	Harris	CD74AC109	
	Motorola	MC74AC109	
	Toshiba	**TC74AC109**	(3836)
74AC11	Motorola	MC74AC11	
	Toshiba	**TC74AC11**	(3836)
74AC112	Harris	CD74AC112	
	Toshiba	**TC74AC112**	(3836)
74AC125	Motorola	MC74AC125	
	Toshiba	**TC74AC125**	(3836)
74AC138	Harris	CD74AC138	
	Motorola	MC74AC132	
		MC74AC138	
	Toshiba	**TC74AC138**	(3836)
74AC139	Harris	CD74AC139	
	Motorola	MC74AC139	
	Toshiba	**TC74AC139**	(3836)
74AC14	Harris	CD74AC14	
	Motorola	MC74AC14	
	Toshiba	**TC74AC14**	(3836)
74AC151	Harris	CD74AC151	
	Motorola	MC74AC151	
	Toshiba	**TC74AC151**	(3836)
74AC153	Harris	CD74AC153	
	Motorola	MC74AC153	
	Toshiba	**TC74AC153**	(3836)
74AC157	Harris	CD74AC157	
	Motorola	MC74AC157	
	Toshiba	**TC74AC157**	(3836)
74AC158	Harris	CD74AC158	
	Motorola	MC74AC158	
	Toshiba	**TC74AC158**	(3836)
♦ 74AC160	Motorola	MC74AC160	
	Toshiba	**TC74AC160**	(3836)
74AC161	Harris	CD74AC161	
	Motorola	MC74AC161	
	Toshiba	**TC74AC161**	(3836)
74AC163	Harris	CD74AC163	
	Motorola	MC74AC163	
	Toshiba	**TC74AC163**	(3836)
74AC164	Harris	CD74AC164	
	Toshiba	**TC74AC164**	(3836)
74AC169	**Toshiba**	**TC74AC169**	(3836)
74AC174	Harris	CD74AC174	
	Motorola	MC74AC174	
	Toshiba	**TC74AC174**	(3836)
74AC175	Harris	CD74AC175	
	Toshiba	**TC74AC175**	(3836)
74AC191	Harris	CD74AC191	
	Motorola	MC74AC190	
	Toshiba	**TC74AC191**	(3836)
74AC20	Harris	CD74AC20	
	Motorola	MC74AC20	
	Toshiba	TC74AC20	
74AC240	Harris	CD74AC238	
		CD74AC240	
	Motorola	MC74AC240	
	Toshiba	**TC74AC240**	(3836)
74AC241	Harris	CD74AC241	
	Motorola	MC74AC241	
	Toshiba	**TC74AC241**	(3836)
74AC244	Harris	CD74AC244	
	Motorola	MC74AC244	
	Toshiba	**TC74AC244**	(3836)
74AC245	Harris	CD74AC245	
	Motorola	MC74AC245	
	Toshiba	**TC74AC245**	(3836)
74AC251	Harris	CD74AC251	
	Motorola	MC74AC251	
	Toshiba	**TC74AC251**	(3836)
74AC2525	National	74AC2526	
74AC2526	National	74AC2525	
74AC253	Harris	CD74AC253	
	Motorola	MC74AC253	
	Toshiba	**TC74AC253**	(3836)
74AC257	Harris	CD74AC257	
	Motorola	MC74AC256	
		MC74AC257	
	Toshiba	**TC74AC257**	(3836)
74AC258	Harris	CD74AC258	
	Motorola	MC74AC258	
	Toshiba	**TC74AC258**	(3836)
74AC269	Motorola	MC74AC259	
74AC2708	Harris	CD74AC273	
	Motorola	MC74AC273	
	National	74AC273	
	Toshiba	**TC74AC273**	(3836)
74AC273	Harris	CD74AC273	
	Motorola	MC74AC273	
	National	74AC2708	
	Toshiba	**TC74AC273**	(3836)
74AC280	Harris	CD74AC280	
	Toshiba	**TC74AC280**	(3836)
74AC283	Harris	CD74AC283	
	Toshiba	**TC74AC283**	(3836)
74AC299	Harris	CD74AC297	
		CD74AC299	
	Motorola	MC74AC299	
	Toshiba	**TC74AC299**	(3836)
74AC32	Harris	CD74AC32	
	Motorola	MC74AC32	
	Toshiba	**TC74AC32**	(3836)
♦ 74AC323	Harris	CD74AC323	
	Toshiba	**TC74AC323**	(3836)
74AC350	Motorola	MC74AC350	
74AC373	Harris	CD74AC373	
	Motorola	MC74AC373	
	Toshiba	**TC74AC373**	(3836)
74AC374	Harris	CD74AC374	
	Motorola	MC74AC374	
	Toshiba	**TC74AC374**	(3836)
74AC377	Motorola	MC74AC377	
	Toshiba	**TC74AC377**	(3836)
74AC378	Motorola	MC74AC378	
♦ 74AC379	**Toshiba**	**TC74AC390**	(3836)
74AC399	**Toshiba**	**TC74AC393**	(3836)
74AC4024	Motorola	MC74AC4020	
74AC520	Motorola	MC74AC4040	
	Toshiba	**TC74AC520**	(3836)
74AC521	Motorola	MC74AC521	
	Toshiba	**TC74AC521**	(3836)
74AC540	Harris	CD74AC540	
	Motorola	MC74AC540	
	Toshiba	**TC74AC540**	(3836)
74AC541	Harris	CD74AC541	
	Motorola	MC74AC541	
	Toshiba	**TC74AC541**	(3836)
♦ 74AC563	Harris	CD74AC563	
	Motorola	MC74AC563	
	Toshiba	**TC74AC563**	(3836)
♦ 74AC564	Harris	CD74AC564	
	Motorola	MC74AC564	
	Toshiba	**TC74AC564**	(3836)
♦ 74AC573	Harris	CD74AC573	
	Motorola	MC74AC573	
	Toshiba	**TC74AC573**	(3836)
74AC574	Harris	CD74AC574	
	Motorola	MC74AC574	
	Toshiba	**TC74AC574**	(3836)
74AC646	Harris	CD74AC646	
	Motorola	MC74AC646	
	Toshiba	**TC74AC646**	(3836)
74AC648	Harris	CD74AC647	
		CD74AC648	
	Motorola	MC74AC648	
	Toshiba	**TC74AC648**	(3836)
74AC74	Harris	CD74AC74	
	Motorola	MC74AC74	
	Toshiba	**TC74AC74**	(3836)
74AC821	**Toshiba**	**TC74AC821**	(3836)
74AC823	**Toshiba**	**TC74AC823**	(3836)
74AC825	Motorola	MC74AC825	
	Toshiba	**TC74AC825**	(3836)
74AC843	Motorola	MC74AC843	
	Toshiba	**TC74AC841**	(3836)
		TC74AC843	(3836)
74AC845	Motorola	MC74AC845	
74AC85	Harris	CD74AC86	
	Motorola	MC74AC86	
	National	74AC86	
	Toshiba	**TC74AC86**	(3836)
74AC86	Harris	CD74AC86	
	Motorola	MC74AC86	
	National	74AC85	
	Toshiba	**TC74AC86**	(3836)
74AC899	**Ideal Semi**	**74AHCT00**	(3644)
74ALS00	Rochester	74ALS00	
74ALS10	Rochester	74ALS10	
74ALS138	Rochester	74ALS138	
74ALS174	Rochester	74ALS174	
74ALS21	Rochester	74ALS21	
74FCT240	IDT	IDT74FCT240	
74FCT241	IDT	IDT74FCT241	
74FCT244	IDT	IDT74FCT244	
74F00	Mitsubishi	M74F00	
	Motorola	MC74F00	
	National	MM74C989	
	Philips	74F00	
	TI	SN74F00	
74F02	Mitsubishi	M74F02	
	Motorola	MC74F02	
	Philips	74F02	
	TI	SN74F02	
74F04	Mitsubishi	M74F04	
	Motorola	MC74F04	
	Philips	74F04	
	Rochester	74F04	
	TI	SN74F04	
74F08	Mitsubishi	M74F08	
	Motorola	MC74F08	
	Philips	74F08	
	TI	SN74F08	
74F10	Mitsubishi	M74F10	
	Motorola	MC74F10	
	Philips	74F10	
	TI	SN74F09	
		SN74F10	
74F109	Mitsubishi	M74F109	
	Motorola	MC74F109	
	Philips	74F109	
	Rochester	74F109	
	TI	SN74F109	
74F11	Mitsubishi	M74F11	
	Motorola	MC74F11	
	Philips	74F11	
	TI	SN74F11	
74F112	Mitsubishi	M74F112	
	Motorola	MC74F112	
	Philips	74F112	
	TI	SN74F112	
74F113	Philips	74F113	
	TI	SN74F113	
74F114	Philips	74F114	
	TI	SN74F114	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74F125	Mitsubishi	M74F125	
	Motorola	MC74F125	
	Philips	74F125	
	TI	SN74F125	
♦ 74F126	Motorola	MC74F126	
	Philips	74F126	
	TI	SN74F126	
74F13	GEC Plessey	MV66401	
	Motorola	MC74F13	
	Philips	74F13	
74F132	Motorola	MC74F132	
	Philips	74F132	
74F138	Mitsubishi	M74F138	
	Motorola	MC74F138	
	Philips	74F133	
		74F138	
	TI	SN74F138	
74F139	Mitsubishi	M74F139	
	Motorola	MC74F139	
	Philips	74F139	
	Rochester	74F139	
74F14	Mitsubishi	M74F14	
	Motorola	MC74F14	
	Philips	74F14	
74F148	Motorola	MC74F148	
	Philips	74F148	
	TI	SN74F148	
74F151	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151A	
	Philips	N74F151	
		N74F151A	
		74F151	
	TI	SN74F151	
		SN74F151A	
74F151A	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151	
	Philips	N74F151	
		N74F151A	
		74F151	
	TI	SN74F151	
		SN74F151A	
74F153	Mitsubishi	M74F153	
	Motorola	MC74F153	
	Philips	74F153	
	Rochester	74F153	
	TI	SN74F153	
74F157	Mitsubishi	M74F157A	
	Motorola	MC74F157	
		MC74F157A	
	National	74F157A	
	Philips	74F154	
		74F157	
		74F157A	
	TI	SN74F157A	
74F157A	Mitsubishi	M74F157A	
	Motorola	MC74F157	
		MC74F157A	
	National	74F157	
	Philips	74F154	
		74F157	
		74F157A	
	TI	SN74F157A	
74F158	Mitsubishi	M74F158A	
	Motorola	MC74F158	
		MC74F158A	
	National	74F158A	
	Philips	N74F158A	
		74F158	
	TI	SN74F158A	
74F158A	Mitsubishi	M74F158A	
	Motorola	MC74F158	
		MC74F158A	
	National	74F158	
	Philips	N74F158A	
		74F158	
	TI	SN74F158A	
74F160A	Motorola	MC74F160A	
	Philips	74F160A	
	TI	SN74F160A	
74F161	Rochester	74F161	
74F161A	Mitsubishi	M74F161A	
	Motorola	MC74F161A	
	Philips	74F1604	
		74F161A	
	TI	SN74F161A	
74F162A	Motorola	MC74F162A	
	Philips	74F162A	
	TI	SN74F162A	
74F163A	Mitsubishi	M74F163A	
	Motorola	MC74F163A	
	Philips	74F163A	
	TI	SN74F163A	
74F164	Mitsubishi	M74F164	
	Motorola	MC74F164	
	National	74F164A	
	Philips	74F164	
	Rochester	74F164	
74F164A	Mitsubishi	M74F164	
	Motorola	MC74F164	
	National	74F164	
	Philips	74F164	
74F168	Motorola	MC74F168	
	Philips	74F168	
	TI	SN74F168	
74F169	Mitsubishi	M74F169	
	Motorola	MC74F169	
	Philips	74F169	
	TI	SN74F169	
74F174	Mitsubishi	M74F174	
	Motorola	MC74F174	
	Philips	74F173	
		74F174	
	TI	SN74F174	
74F175	Mitsubishi	M74F175	
	Motorola	MC74F175	
	Philips	74F175	
		74F175A	
	Rochester	74F175	
	TI	SN74F175	
74F181	Motorola	MC74F181	
	Philips	74F181	
74F182	Motorola	MC74F182	
	Philips	74F182	
74F189	Philips	74F1832	
		74F189A	
74F190	Philips	74F190	
	TI	SN74F190	
74F191	Philips	74F191	
	TI	SN74F191	
74F192	Philips	74F192	
	TI	SN74F192	
74F193	Philips	74F193	
	TI	SN74F193	
74F194	Motorola	MC74F194	
	Philips	74F194	
♦ 74F195	Motorola	MC74F195	
	Philips	74F195	
		74F195A	
74F20	Mitsubishi	M74F20	
	Motorola	MC74F20	
	Philips	74F20	
	Rochester	74F20	
	TI	SN74F20	
♦ 74F213	National	74F219	
	Philips	74F219A	
74F219	Philips	74F219A	
74F2240	Philips	74F2240	
74F2241	Philips	74F2241	
74F2243	National	74F2244	
	Philips	74F2244	
74F2244	National	74F2243	
	Philips	74F2244	
74F240	Harris	CD74FCT240	
	Mitsubishi	M74F240	
	Motorola	MC74F240	
	Philips	74F225	
		74F240	
		74F240A	
	Rochester	74F240	
	TI	SN74F240	
74F241	Harris	CD74FCT241	
	Mitsubishi	M74F241	
	Motorola	MC74F241	
	Philips	74F241	
		74F241A	
	Rochester	74F241	
	TI	SN74F241	
74F242	Motorola	MC74F242	
	Philips	74F242	
	TI	SN74F242	
74F243	Motorola	MC74F243	
	Philips	74F243	
	Rochester	74F243	
	TI	SN74F243	
74F244	Harris	CD74FCT244	
	Mitsubishi	M74F244	
	Motorola	MC74F244	
74F244			(Cont'd)
	Philips	74F244	
		74F244B	
	Rochester	74F244	
	TI	SN74F244	
74F245	Harris	CD74FCT245	
	Mitsubishi	M74F245	
	Motorola	MC74F245	
	Philips	74F245	
	TI	SN74F245	
74F251	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251A	
	Philips	N74F251A	
		74F251	
		74F251A	
	Rochester	74F251A	
	TI	SN74F251	
		SN74F251A	
74F251A	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251	
	Philips	N74F251A	
		74F251	
		74F251A	
	TI	SN74F251	
		SN74F251A	
74F253	Mitsubishi	M74F253	
	Motorola	MC74F253	
	Philips	74F253	
	TI	SN74F253	
74F256	Motorola	MC74F256	
	Philips	74F256	
74F257	Mitsubishi	M74F257A	
	Motorola	MC74F257	
		MC74F257A	
	National	74F257A	
	Philips	N74F257A	
		74F257	
		74F257A	
	Rochester	74F257A	
	TI	SN74F257	
74F257A	Mitsubishi	M74F257A	
	Motorola	MC74F257	
		MC74F257A	
	National	74F257	
	Philips	N74F257A	
		74F257	
		74F257A	
	TI	SN74F257	
74F258	Mitsubishi	M74F258A	
	Motorola	MC74F258	
		MC74F258A	
	National	74F258A	
	Philips	N74F258A	
		74F258	
		74F258A	
	TI	SN74F258	
74F258A	Mitsubishi	M74F258A	
	Motorola	MC74F258	
		MC74F258A	
	National	74F258	
	Philips	N74F258A	
		74F258	
		74F258A	
	TI	SN74F258	
74F259	Motorola	MC74F259	
	Philips	74F259	
74F2620	National	74F2623	
74F2623	National	74F2620	
74F2640	National	74F2643	
74F2643	National	74F2640	
74F2645	Motorola	MC74F269	
	National	74F269	
	Philips	74F269	
74F269	Motorola	MC74F269	
	National	74F2645	
	Philips	74F269	
74F27	Philips	74F27	
	TI	SN74F27	
74F273	Harris	CD74FCT273	
	Motorola	MC74F273	
	Philips	74F273	
		74F273A	
	TI	SN74F273	
74F280	Mitsubishi	M74F280	
	Motorola	MC74F280	
	Philips	74F280A	
		74F280B	
	TI	SN74F280A	
74F283	Mitsubishi	M74F283	
	Motorola	MC74F283	
74F283			(Cont'd)
	Philips	74F283	
	TI	SN74F283	
74F298	Philips	74F298	
74F299	Motorola	MC74F299	
	Philips	74F299	
	TI	SN74F299	
74F30	Mitsubishi	M74F30	
	Philips	74F30	
	TI	SN74F30	
♦ 74F3040	Philips	74F3040	
74F32	Mitsubishi	M74F32	
	Motorola	MC74F32	
	Philips	74F32	
	TI	SN74F32	
74F322	Philips	74F322	
74F323	Motorola	MC74F323	
	Philips	74F323	
	TI	SN74F323	
74F350	Motorola	MC74F350	
	Philips	74F350	
	TI	SN74F350	
74F352	Mitsubishi	M74F352	
	Motorola	MC74F352	
	Philips	74F352	
	Rochester	74F352	
	TI	SN74F352	
74F353	Mitsubishi	M74F353	
	Motorola	MC74F353	
	Philips	74F353	
	TI	SN74F353	
74F365	Motorola	MC74F365	
	Philips	74F365	
	TI	SN74F36	
74F366	Motorola	MC74F366	
	Philips	74F366	
♦ 74F367	Motorola	MC74F367	
	Philips	74F367	
74F368	Motorola	MC74F368	
	Philips	74F368	
74F37	Motorola	MC74F37	
	Philips	74F37	
	TI	SN74F37	
74F373	Harris	CD74FCT373	
	Mitsubishi	M74F373	
	Motorola	MC74F373	
	Philips	74F373	
	Rochester	74F373	
	TI	SN74F373	
74F374	Harris	CD74FCT374	
	Mitsubishi	M74F374	
	Motorola	MC74F374	
	Philips	74F374	
	Rochester	74F374	
	TI	SN74F374	
74F377	Motorola	MC74F377	
	Philips	74F377	
		74F377A	
	TI	SN74F377	
74F378	Motorola	MC74F378	
	Philips	74F378	
	TI	SN74F378	
74F379	Motorola	MC74F379	
	Philips	74F379	
	TI	SN74F379	
74F38	Motorola	MC74F38	
	Philips	74F38	
	TI	SN74F38	
74F381	Motorola	MC74F381	
	Philips	74F381	
	TI	SN74F381	
74F382	Motorola	MC74F382	
	Philips	74F382	
	TI	SN74F382	
74F385	Philips	74F385	
74F395	Philips	N74F393	
		74F395	
74F398	Motorola	MC74F398	
	Philips	74F398	
	Rochester	74F398	
74F399	Motorola	MC74F399	
	Philips	74F399	
74F40	Motorola	MC74F40	
	Philips	74F40	
	TI	SN74F40	
74F401	National	74F402	
74F402	National	74F401	
74F403	National	74F403A	
74F403A	National	74F403	
74F407	National	74F410	
	Philips	N74F410	
74F410	National	74F407	
	Philips	N74F410	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
74F412	Philips	74F412	
♦ 74F416	National	74F413	
♦ 74F418	National	74F420	
74F432	Philips	74F432	
74F433	Philips	N74F455	
	TI	SN74F455	
♦ 74F492	TI	SN74F456	
♦ 74F500	Philips	74F50109	
74F51	Motorola	MC74F51	
	Philips	74F5074	
		74F51	
	TI	SN74F51	
♦ 74F510	TI	SN74F518	
74F521	Mitsubishi	M74F521	
	Motorola	MC74F521	
	Philips	74F521	
	TI	SN74F521	
74F524	Philips	74F524	
♦ 74F526	National	74F525	
74F533	Harris	CD74FCT533	
	Motorola	MC74F533	
	Philips	74F533	
	TI	SN74F533	
74F534	Harris	CD74FCT534	
	Motorola	MC74F534	
	Philips	74F534	
	TI	SN74F534	
74F537	Motorola	MC74F537	
	Philips	74F537	
74F538	Motorola	MC74F538	
	Philips	74F538	
74F539	Motorola	MC74F539	
	Philips	74F539	
74F540	Harris	CD74FCT540	
	Philips	74F540	
	TI	SN74F540	
74F541	Harris	CD74FCT541	
	Philips	74F541	
	TI	SN74F541	
74F543	Harris	CD74FCT543	
	Mitsubishi	M74F543	
	Motorola	MC74F543	
	Philips	74F543	
	TI	SN74F543	
74F544	Harris	CD74FCT544	
	Motorola	MC74F544	
	Philips	74F544	
	TI	SN74F544	
74F545	Philips	74F545	
74F547	Philips	74F547	
74F548	Philips	74F548	
74F550	National	74F551	
74F551	National	74F550	
74F552	Philips	74F552	
♦ 74F559	National	74F563	
	Philips	74F563	
	TI	SN74F563	
74F563	Harris	CD74FCT563	
	Philips	74F563	
	TI	SN74F563	
74F564	Harris	CD74FCT564	
	Philips	74F564	
	TI	SN74F564	
74F568	Motorola	MC74F568	
	Philips	74F568	
	TI	SN74F568	
74F569	Motorola	MC74F569	
	Philips	74F569	
	TI	SN74F569	
74F573	Harris	CD74FCT573	
	Mitsubishi	M74F573	
	Philips	74F573	
	TI	SN74F573	
74F574	Harris	CD74FCT574	
	Mitsubishi	M74F574	
	Motorola	MC74F574	
	Philips	N74F574	
	TI	SN74F574	
74F579	Motorola	MC74F579	
	Philips	74F579	
74F582	Philips	N74F582	
74F583	Philips	74F583	
74F588	Philips	74F588	
74F595	Philips	74F595	
74F597	Philips	74F597	
♦ 74F598	Philips	74F598	
♦ 74F604	Philips	74F604	
♦ 74F605	Philips	74F605	
74F620	Motorola	MC74F620	
	Philips	74F620	
	TI	SN74F620	
♦ 74F621	Philips	74F621	
	TI	SN74F621	
♦ 74F622	Philips	74F622	
	TI	SN74F622	
74F623	Harris	CD74FCT623	
	Motorola	MC74F623	
	Philips	74F623	
	TI	SN74F623	
74F632	Motorola	MC74F64	
	National	74F64	
	Philips	74F64	
	TI	SN74F64	
74F64	Motorola	MC74F64	
	National	74F632	
	Philips	74F64	
	TI	SN74F64	
74F640	Motorola	MC74F640	
	Philips	74F640	
74F646	Harris	CD74FCT646	
	Mitsubishi	M74F646	
	Motorola	MC74F646	
	Philips	N74F646A	
		74F646	
		74F646A	
	TI	SN74F646	
74F648	Harris	CD74FCT648	
	Mitsubishi	M74F648	
	Motorola	MC74F648	
	Philips	N74F648A	
		74F647	
		74F648	
		74F648A	
74F651	Philips	N74F651A	
		74F649	
		74F651	
		74F651A	
74F652	Philips	N74F652A	
		74F652	
		74F652A	
♦ 74F655	Philips	74F655A	
♦ 74F656	Philips	74F656A	
74F657	Motorola	MC74F657A	
		MC74F657B	
	Philips	74F657	
	TI	SN74F657	
74F673	National	74F673A	
	Philips	74F670	
74F673A	National	74F673	
	Philips	74F670	
74F674	Philips	74F674	
74F675	National	74F675A	
74F675A	National	74F675	
74F676	Philips	74F676	
74F701	National	74F702	
74F702	National	74F701	
74F710	Philips	74F711-1	
		74F711A	
74F74	Mitsubishi	M74F74	
	Motorola	MC74F74	
	Philips	74F74	
	TI	SN74F74	
74F779	Motorola	MC74F779	
	Philips	N74F777	
		74F779	
♦ 74F784	Philips	74F786	
74F794	Motorola	MC74F803	
74F821	AMD	AM29C821A	
		AM29821	
	Harris	CD74FCT821	
	Mitsubishi	M74F821	
	Philips	74F821	
74F823	AMD	AM29C823A	
		AM29823	
	Harris	CD74FCT823	
	Mitsubishi	M74F823	
	Philips	74F822	
		74F823	
74F825	Mitsubishi	M74F825	
	Philips	74F824	
		74F825	
74F827	AMD	AM29C827A	
		AM29827	
	Harris	CD74FCT827	
	Motorola	MC74F827	
	Philips	74F826	
		74F827	
74F828	AMD	AM29C828A	
	Harris	CD74FCT828	
	Motorola	MC74F828	
	Philips	74F828	
74F841	AMD	AM29C841A	
		AM29841	
	Harris	CD74FCT841	
	Mitsubishi	M74F841	
	Philips	74F841	
74F843	AMD	AM29C843A	
		AM29843	
	Harris	CD74FCT843	
	Mitsubishi	M74F843	
	Philips	74F842	
		74F843	
74F845	Mitsubishi	M74F845	
	Philips	74F844	
		74F845	
♦ 74F85	Motorola	MC74F85	
	Philips	74F85	
74F86	Mitsubishi	M74F86	
	Motorola	MC74F86	
	Philips	74F86	
	TI	SN74F86	
74F899	Philips	74F899	
74F968	National	74F978	
74F978	National	74F968	
♦ 74HCT04	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	Philips	74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
♦ 74HCT07	GoldStar	GD74HCT08	
	Harris	CD74HCT08	
	Motorola	MC74HCT08A	
	National	MM74HCT08	
	Philips	74HCT08	
	TI	SN74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
74HCT190	GoldStar	GD74HCT190	
	Harris	CD74HCT190	
	Philips	74HCT190	
♦ 74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
♦ 74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
♦ 74HC07	**Toshiba**	**TC74HC07A**	**(3836)**
♦ 74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
♦ 74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
♦ 74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
♦ 74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
♦ 74HC112 (Cont'd)			
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
♦ 74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
♦ 74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
♦ 74HC133	Motorola	MC74HC133	
	National	MM74HC133	
	SGS-Thomson	M74HC133	
	TI	SN74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
♦ 74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
♦ 74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
♦ 74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
♦ 74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
♦ 74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
♦ 74HC151	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
♦ 74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 74HC153			(Cont'd)
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
♦ 74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
♦ 74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
♦ 74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
♦ 74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
♦ 74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
♦ 74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
♦ 74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
♦ 74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
			(Continued)
♦ 74HC175			(Cont'd)
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
♦ 74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
♦ 74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
♦ 74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
♦ 74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
♦ 74HC221	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221 M74HC221A	
♦ 74HC221	**Toshiba**	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
♦ 74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240 M74HC240-1	
♦ 74HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
♦ 74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241 M74HC241HV	
♦ 74HC241	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
♦ 74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
♦ 74HC243	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	National	MM74HC243	
			(Continued)
♦ 74HC243			(Cont'd)
	Philips	74HC243	
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	**(3836)**
♦ 74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244 M74HC244-1	
♦ 74HC244	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
♦ 74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245 M74HC245-1	
♦ 74HC245	Motorola	MC74HC245A	
	National	MM74HC245 MM74HC245A	
♦ 74HC245	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
♦ 74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
♦ 74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
♦ 74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
♦ 74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
♦ 74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
♦ 74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273 M74HC273-1	
♦ 74HC273	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
			(Continued)
♦ 74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
♦ 74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	**(3836)**
♦ 74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
♦ 74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
♦ 74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
♦ 74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
♦ 74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
♦ 74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
♦ 74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
♦ 74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 74HC373			(Cont'd)
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
♦ 74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
♦ 74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
♦ 74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
♦ 74HC4017	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	**(3836)**
♦ 74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
♦ 74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836)**
♦ 74HC4046	Harris	CD74HC4046A	
	Motorola	MC74HC4046A	
	National	MM74HC4046	
	Philips	74HC4046A	
♦ 74HC4047	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
♦ 74HC4049	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
♦ 74HC4050	Harris	CD74HC4050	
	Mitsubishi	M74HC4050B	
			(Continued)
♦ 74HC4050			(Cont'd)
	Motorola	MC74HC4050	
	National	MM74HC4050	
	Philips	74HC4050	
	SGS-Thomson	M74HC4050	
	Toshiba	**TC74HC4050A**	**(3836)**
♦ 74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
♦ 74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
♦ 74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
♦ 74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
♦ 74HC4510	Harris	CD74HC4510	
	Philips	74HC4510	
♦ 74HC4512	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
♦ 74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
♦ 74HC4516	Harris	CD74HC4516	
	Philips	74HC4516	
♦ 74HC4538	Harris	CD74HC4538	
	Motorola	MC74HC4538A	
	National	MM74HC4538	
	Philips	74HC4538	
	SGS-Thomson	M74HC4538	
	Toshiba	**TC74HC4538A**	**(3836)**
♦ 74HC4703	TI	SN74HC4724	
♦ 74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533 M74HC533-1	
♦ 74HC533	Motorola	MC74HC533A	
	National	MM74HC521 MM74HC533	
♦ 74HC533	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
♦ 74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534 M74HC534-1	
			(Continued)
♦ 74HC534	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
♦ 74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555 74HC563	
♦ 74HC563	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
♦ 74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
♦ 74HC573	Harris	CD74HC573	
	Motorola	MC74HC573A	
	National	MM74HC573	
	Philips	74HC573	
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
♦ 74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
♦ 74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640 M74HC640-1	
♦ 74HC640	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
♦ 74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643 M74HC643-1	
♦ 74HC643	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
♦ 74HC645	Mitsubishi	M74HC645 M74HC645-1	
♦ 74HC645	TI	SN74HC645	
♦ 74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
♦ 74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
♦ 74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
			(Continued)
♦ 74HC688			(Cont'd)
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
♦ 74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
♦ 74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
♦ 74HC76	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	National	MM74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
♦ 74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1 M74HC85	
♦ 74HC85	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
♦ 74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
♦ 74H00	**Lansdale**	**ML74H00** SL74H00	**(3669)**
♦ 74H00	Rochester	74H00	
♦ 74H01	**Lansdale**	**ML74H01** SL74H01	**(3669)**
♦ 74H01	OKI	74H000	
	Rochester	74H01	
♦ 74H04	**Lansdale**	**ML74H04**	**(3669)**
	Rochester	74H04	
♦ 74H05	**Lansdale**	**ML74H05**	**(3669)**
	Rochester	74H05	
♦ 74H08	**Lansdale**	**ML74H08** SL74H08	**(3669)**
♦ 74H08	Rochester	74H08	
♦ 74H09	**Lansdale**	**ML74H10**	**(3669)**
	Rochester	74H10	
♦ 74H10	**Lansdale**	**ML74H10** SL74H10	**(3669)**
♦ 74H10	Rochester	74H10	
♦ 74H101	**Lansdale**	**ML74H101** SL74H101	**(3669)**
♦ 74H101	Rochester	74H101	
♦ 74H102	Lansdale	ML74H102 SL74H102	
♦ 74H102	Rochester	74H102	
♦ 74H103	**Lansdale**	**ML74H103**	**(3669)**
	Rochester	74H103	
♦ 74H106	Rochester	74H106	
♦ 74H108	**Lansdale**	**ML74H108** SL74H108	**(3669)**
♦ 74H108	Rochester	74H108	
♦ 74H11	**Lansdale**	**ML74H11** SL74H11	**(3669)**
♦ 74H11	Rochester	RC3006 74H11	
♦ 74H183	Rochester	74H183	
♦ 74H20	**Lansdale**	**ML74H20** SL74H20	**(3669)**
♦ 74H20	Rochester	74H20	
♦ 74H21	**Lansdale**	**ML74H21** SL74H21	**(3669)**
♦ 74H21	Rochester	74H21	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 74H22	**Lansdale**	**ML74H22**	**(3669)**
		SL74H22	
♦ 74H22	Rochester	74H22	
♦ 74H30	**Lansdale**	**ML74H30**	**(3669)**
		SL74H30	
♦ 74H30	Rochester	74H30	
♦ 74H40	**Lansdale**	**ML74H40**	**(3669)**
		SL74H40	
♦ 74H40	Rochester	74H40	
♦ 74H50	**Lansdale**	**ML74H50**	**(3669)**
	Rochester	74H50	
♦ 74H51	**Lansdale**	**ML74H51**	**(3669)**
	Rochester	74H51	
♦ 74H52	**Lansdale**	**ML74H52**	**(3669)**
		SL74H52	
♦ 74H52	Rochester	74H52	
♦ 74H53	**Lansdale**	**ML74H53**	**(3669)**
		SL74H53	
♦ 74H53	Rochester	74H53	
♦ 74H54	**Lansdale**	**ML74H54**	**(3669)**
		SL74H54	
♦ 74H54	Rochester	74H54	
♦ 74H55	**Lansdale**	**ML74H55**	**(3669)**
		SL74H55	
♦ 74H55	Rochester	74H55	
♦ 74H60	Lansdale	ML74H60	
		SL74H60	
♦ 74H60	Rochester	74H60	
♦ 74H61	**Lansdale**	**ML74H61**	**(3669)**
		SL74H61	
♦ 74H61	Rochester	RC3019	
		74H61	
♦ 74H62	**Lansdale**	**ML74H62**	**(3669)**
		SL74H62	
♦ 74H62	Rochester	74H62	
♦ 74H71	Lansdale	ML74H71	
		SL74H71	
♦ 74H71	Rochester	RC3016	
		RC3054	
		74H71	
♦ 74H72	**Lansdale**	**ML74H72**	**(3669)**
		SL74H72	
♦ 74H72	Rochester	RC3055	
		74H72	
♦ 74H73	**Lansdale**	**ML74H73**	**(3669)**
		SL74H73	
♦ 74H73	Rochester	RC3063	
		74H73	
♦ 74H74	**Lansdale**	**ML74H74**	**(3669)**
	Rochester	74H74	
♦ 74H76	Rochester	74H76	
♦ 74H78	Rochester	74H78	
♦ 74H87	**Lansdale**	**ML74H87**	**(3669)**
	Rochester	74H76	
		74H87	
74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	**(3674)**
	Motorola	SN74LS00	
	National	DM74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
	TI	SN74LS00	
♦ 74LS00	Rochester	74LS00	
74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	**(3674)**
	Motorola	SN74LS02	
	National	DM74LS02	
	SGS-Thomson	T74LS02	
		74LS02	
	TI	SN74LS02	
74LS03	Motorola	SN74LS03	
	National	DM74LS03	
	Rochester	74LS03	
	SGS-Thomson	T74LS03A	
		74LS03	
	TI	SN74LS03	
♦ 74LS03	Rochester	74LS03	
74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	**(3674)**
	Motorola	SN74LS04	
	National	DM74LS04	
	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
			(Continued)
74LS04			(Cont'd)
	TI	SN74LS04	
♦ 74LS04	Rochester	74LS04	
74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	**(3674)**
	Motorola	SN74LS05	
	National	DM74LS05	
	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
	TI	SN74LS05	
♦ 74LS05	Rochester	74LS05	
74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	**(3674)**
	Motorola	SN74LS08	
	National	DM74LS08	
	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
	TI	SN74LS08	
♦ 74LS08	Rochester	74LS08	
74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	**(3674)**
	Motorola	SN74LS09	
	National	DM74LS09	
	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
	TI	SN74LS09	
♦ 74LS09	Rochester	74LS09	
74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	**(3674)**
	Motorola	SN74LS10	
	National	DM74LS10	
	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
	TI	SN74LS10	
♦ 74LS10	Rochester	74LS10	
♦ 74LS107	GoldStar	GD74LS107A	
	Lansdale	**SL74LS107**	**(3674)**
	Motorola	SN74LS107A	
	National	DM74LS107A	
	TI	SN74LS107A	
74LS109	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	**(3674)**
	Motorola	SN74LS109A	
	National	DM74LS109	
	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	**(3674)**
	Motorola	SN74LS11	
	National	DM74LS11	
	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
	TI	SN74LS11	
♦ 74LS11	Rochester	74LS11	
74LS112	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	**(3674)**
	Motorola	SN74LS112A	
	National	DM74LS112	
	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
♦ 74LS113	**Lansdale**	**SL74LS113**	**(3674)**
	Motorola	SN74LS113A	
	Rochester	74LS113	
	SGS-Thomson	T74LS113A	
	TI	SN74LS113A	
♦ 74LS114	Motorola	SN74LS114A	
	Rochester	74LS114	
	SGS-Thomson	T74LS114A	
	TI	SN74LS114A	
74LS12	Motorola	SN74LS12	
	National	DM74LS12	
	Rochester	74LS12	
	SGS-Thomson	T74LS12	
		74LS12	
	TI	SN74LS12	
♦ 74LS12	Rochester	74ALS12	
		74LS12	
74LS125	GoldStar	GD74LS125	
		GD74LS125A	
			(Continued)
74LS125			(Cont'd)
	Lansdale	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
	Motorola	SN74LS125A	
	National	DM74LS125A	
	SGS-Thomson	T74LS125A	
		74LS125A	
	TI	SN74LS125A	
74LS126	**Lansdale**	**SL74LS126A**	**(3674)**
	Motorola	SN74LS126A	
	National	DM74LS126	
	SGS-Thomson	T74LS126A	
		74LS126	
	TI	SN74LS126A	
74LS13	**Lansdale**	**SL74LS13**	**(3674)**
	Motorola	SN74LS13	
	SGS-Thomson	T74LS13	
		74LS13	
	TI	SN74LS13	
74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	**(3674)**
	Motorola	SN74LS132	
	National	DM74LS132	
	SGS-Thomson	T74LS132	
		74LS132	
	TI	SN74LS132	
74LS133	Motorola	SN74LS133	
	SGS-Thomson	T74LS133	
		74LS133	
74LS136	**Lansdale**	**SL74LS136**	**(3674)**
	Motorola	SN74LS136	
	SGS-Thomson	T74LS136	
		74LS136	
	TI	SN74LS136	
74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	**(3674)**
	Motorola	SN74LS138	
	National	DM74LS138	
	SGS-Thomson	T74LS138	
		74LS138	
	TI	SN74LS138	
74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	**(3674)**
	Motorola	SN74LS139	
	National	DM74LS139	
	SGS-Thomson	T74LS139	
		74LS139	
	TI	SN74LS139A	
74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	**(3674)**
	Motorola	SN74LS14	
	National	DM74LS14	
	SGS-Thomson	T74LS14	
		74LS14	
	TI	SN74LS14	
♦ 74LS145	GoldStar	GD74LS145	
	Motorola	SN74LS145	
	TI	SN74LS145	
74LS15	GoldStar	GD74LS15	
	Motorola	SN74LS15	
	SGS-Thomson	T74LS15	
		74LS15	
	TI	SN74LS15	
74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	**(3674)**
	Motorola	SN74LS151	
	National	DM74LS151	
	SGS-Thomson	T74LS151	
		74LS151	
	TI	SN74LS151	
♦ 74LS152	Rochester	74LS152	
74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	**(3674)**
	Motorola	SN74LS153	
	National	DM74LS153	
	SGS-Thomson	T74LS153	
		74LS153	
	TI	SN74LS153	
74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	**(3674)**
			(Continued)
74LS155			(Cont'd)
	Motorola	SN74LS155	
	National	DM74LS155	
	SGS-Thomson	T74LS155	
		74LS155	
	TI	SN74LS155A	
74LS156	**Lansdale**	**SL74LS156**	**(3674)**
	Motorola	SN74LS156	
	National	DM74LS156	
	SGS-Thomson	T74LS156	
		74LS156	
	TI	SN74LS156	
74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	**(3674)**
	Motorola	SN74LS157	
	National	DM74LS157	
	SGS-Thomson	T74LS157	
		74LS157	
	TI	SN74LS157	
74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	DM74LS158	
	Rochester	74LS158	
	SGS-Thomson	T74LS158	
		74LS158	
	TI	SN74LS158	
♦ 74LS158	Rochester	74LS158	
74LS160	**Lansdale**	**SL74LS160A**	**(3674)**
	Motorola	SN74LS160A	
	SGS-Thomson	T74LS160A	
	TI	SN74LS160A	
74LS161	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	**(3674)**
	Motorola	SN74LS161A	
	National	DM74LS161A	
	SGS-Thomson	T74LS161A	
	TI	SN74LS161A	
74LS162	**Lansdale**	**SL74LS162A**	**(3674)**
	Motorola	SN74LS162A	
	SGS-Thomson	T74LS162A	
	TI	SN74LS162A	
74LS163	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	**(3674)**
	Motorola	SN74LS163A	
	National	DM74LS163A	
	SGS-Thomson	T74LS163A	
	TI	SN74LS163A	
74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	**(3674)**
	Motorola	SN74LS164	
	National	DM74LS164	
	SGS-Thomson	T74LS164	
		74LS164	
	TI	SN74LS164	
74LS165	GoldStar	GD74LS165	
	Motorola	SN74LS165	
	TI	SN74LS165A	
♦ 74LS168	Motorola	SN74LS168	
	SGS-Thomson	T74LS168	
		74LS168	
74LS169	**Lansdale**	**SL74LS169A**	**(3674)**
	Motorola	SN74LS169	
	National	DM74LS169A	
	Rochester	74LS169	
	SGS-Thomson	T74LS169	
		74LS169	
	TI	SN74LS169B	
74LS170	Motorola	SN74LS170	
	SGS-Thomson	T74LS170	
		74LS170	
	TI	SN74LS170	
74LS173A	**Lansdale**	**SL74LS173**	**(3674)**
	Motorola	SN74LS173A	
	TI	SN74LS173A	
74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	**(3674)**
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
74LS174 (Cont'd)	Motorola	SN74LS174	
	National	DM74LS174	
	SGS-Thomson		
		T74LS174	
		74LS174	
	TI	SN74LS174	
74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	**(3674)**
	Motorola	SN74LS175	
	National	DM74LS175	
	SGS-Thomson		
		T74LS175	
		74LS175	
	TI	SN74LS175	
74LS181	Motorola	SN74LS181	
	SGS-Thomson		
		T74LS181	
		74LS181	
	TI	SN74LS181	
♦ 74LS189	TI	SN74LS189A	
74LS190	Motorola	SN74LS190	
	National	DM74LS190	
	SGS-Thomson		
		T74LS190	
		74LS190	
	TI	SN74LS190	
74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	**(3674)**
	Motorola	SN74LS191	
	National	DM74LS191	
	SGS-Thomson		
		T74LS191	
		74LS191	
	TI	SN74LS191	
74LS192	**Lansdale**	**SL74LS192**	**(3674)**
	Motorola	SN74LS192	
	SGS-Thomson		
		T74LS192	
		74LS192	
	TI	SN74LS192	
74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	**(3674)**
	Motorola	SN74LS193	
	National	DM74LS193	
	SGS-Thomson		
		T74LS193	
		74LS193	
	TI	SN74LS193	
♦ 74LS194	Rochester	74LS194	
♦ 74LS195	GoldStar	GD74LS195A	
	Motorola	SN74LS195A	
	National	DM74LS195A	
	SGS-Thomson		
		T74LS195A	
		74LS195	
♦ 74LS195	TI	SN74LS195A	
74LS196	Motorola	SN74LS196	
	SGS-Thomson		
		T74LS196	
		74LS196	
	TI	SN74LS196	
74LS197	**Lansdale**	**SL74LS197**	**(3674)**
	Motorola	SN74LS197	
	SGS-Thomson		
		T74LS197	
		74LS197	
	TI	SN74LS197	
74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
	Motorola	SN74LS20	
	National	DM74LS20	
	Rochester	74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
	TI	SN74LS20	
♦ 74LS20	Rochester	74LS20	
74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	DM74LS21	
	Rochester	74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
	TI	SN74LS21	
♦ 74LS21	Rochester	74LS21	
♦ 74LS22	Motorola	SN74LS22	
	Rochester	74LS22	
			(Continued)
♦ 74LS22 (Cont'd)	SGS-Thomson		
		T74LS22	
		74LS22	
♦ 74LS22	TI	SN74LS219A	
74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	**(3674)**
	Motorola	SN74LS240	
	National	DM74LS240	
	SGS-Thomson		
		T74LS240	
		74LS240	
	TI	SN74LS240	
74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	**(3674)**
	Motorola	SN74LS241	
	National	DM74LS241	
	SGS-Thomson		
		T74LS241	
		74LS241	
	TI	SN74LS241	
♦ 74LS242	GoldStar	GD74LS242	
	Lansdale	**SL74LS242**	**(3674)**
	Motorola	SN74LS242	
	TI	SN74LS242	
♦ 74LS243	GoldStar	GD74LS243	
	Lansdale	**SL74LS243**	**(3674)**
	Motorola	SN74LS243	
	National	DM74LS243	
	TI	SN74LS243	
74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	**(3674)**
	Motorola	SN74LS244	
	National	DM74LS244	
	SGS-Thomson		
		T74LS244	
		74LS244	
	TI	SN74LS244	
74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	DM74LS245	
	Rochester	74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
	TI	SN74LS245	
♦ 74LS245	Rochester	74LS245	
74LS247	Motorola	SN74LS247	
	TI	SN74LS247	
74LS248	Motorola	SN74LS248	
	SGS-Thomson		
		T74LS248	
74LS249	Motorola	MC74LS249	
	SGS-Thomson		
		T74LS248B1	
♦ 74LS25	Rochester	74LS25	
74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	**(3674)**
	Motorola	SN74LS251	
	National	DM74LS251	
	Rochester	74LS251	
	SGS-Thomson		
		T74LS251	
		74LS251	
	TI	SN74LS251	
♦ 74LS251	Rochester	74LS251	
74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	Motorola	SN74LS253	
	National	DM74LS253	
	Rochester	74LS253	
	SGS-Thomson		
		T74LS253	
		74LS253	
	TI	SN74LS253	
♦ 74LS253	Rochester	74LS253	
74LS256	**Lansdale**	**SL74LS256**	**(3674)**
	Motorola	SN74LS256	
	SGS-Thomson		
		T74LS256	
		74LS256	
74LS257	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
	Rochester	74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
	TI	SN74LS257B	
♦ 74LS257	Rochester	74LS257	
			(Continued)
74LS258	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
	Rochester	74LS258	
	SGS-Thomson		
		T74LS258A	
		74LS258	
	TI	SN74LS258B	
♦ 74LS258	Rochester	74LS258	
74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	DM74LS259	
	Rochester	74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
	TI	SN74LS259B	
♦ 74LS259	Rochester	74LS259	
74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	DM74LS26	
	Rochester	74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
	TI	SN74LS26	
♦ 74LS26	Rochester	74LS26	
74LS260	Motorola	SN74LS260	
	SGS-Thomson		
		T74LS260	
		74LS260	
74LS266	**Lansdale**	**SL74LS266**	**(3674)**
	Motorola	SN74LS266	
	SGS-Thomson		
		T74LS266	
		74LS266	
	TI	SN74LS266	
74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	DM74LS27	
	Rochester	74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
	TI	SN74LS27	
♦ 74LS27	Rochester	74LS27	
74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	**(3674)**
	Motorola	SN74LS273	
	SGS-Thomson		
		T74LS273	
		74LS273	
	TI	SN74LS273	
♦ 74LS276	Rochester	74LS276	
74LS279	Motorola	SN74LS279	
	National	DM74LS279	
	Rochester	74LS279	
	SGS-Thomson		
		T74LS279	
		74LS279	
	TI	SN74LS279A	
♦ 74LS279	Rochester	74LS279	
74LS28	Motorola	SN74LS28	
	SGS-Thomson		
		T74LS28	
		74LS28	
	TI	SN74LS28	
74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	**(3674)**
	Motorola	SN74LS283	
	National	DM74LS283	
	SGS-Thomson		
		T74LS283	
		74LS283	
	TI	SN74LS283	
♦ 74LS289	Motorola	SN74LS290	
	National	DM74LS290	
		74LS290	
♦ 74LS289	SGS-Thomson		
		T74LS290	
	TI	SN74LS290	
74LS290	Motorola	SN74LS290	
	National	DM74LS290	
	SGS-Thomson		
		T74LS290	
	TI	SN74LS290	
			(Continued)
74LS293	Motorola	SN74LS293	
	National	DM74LS293	
	SGS-Thomson		
		T74LS293	
		74LS293	
	TI	SN74LS292	
		SN74LS293	
♦ 74LS295	**Lansdale**	**SL74LS295B**	**(3674)**
	SGS-Thomson		
		T74LS295A	
		74LS295A	
♦ 74LS295	TI	SN74LS294	
		SN74LS295B	
74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	**(3674)**
	Motorola	SN74LS298	
	SGS-Thomson		
		T74LS298	
		74LS298	
	TI	SN74LS297	
		SN74LS298	
74LS299	Motorola	SN74LS299	
	TI	SN74LS299	
74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	Motorola	SN74LS30	
	National	DM74LS30	
	Rochester	74LS30	
	SGS-Thomson		
		T74LS30	
		74LS30	
	TI	SN74LS30	
♦ 74LS30	Rochester	74LS30	
74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
	National	DM74LS32	
	Rochester	74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
	TI	SN74LS31	
		SN74LS32	
♦ 74LS32	Rochester	74LS32	
♦ 74LS321	Rochester	74LS321	
74LS322	GoldStar	GD74LS322	
	Motorola	SN74LS322A	
	TI	SN74LS322A	
74LS323	Motorola	SN74LS323	
	TI	SN74LS323	
74LS33	**Lansdale**	**SL74LS33**	**(3674)**
	Motorola	SN74LS33	
	SGS-Thomson		
		T74LS33	
		74LS33	
	TI	SN74LS33	
74LS347	Motorola	SN74LS348	
	TI	SN74LS348	
74LS352	**Lansdale**	**SL74LS352**	**(3674)**
	Motorola	SN74LS352	
	National	DM74LS352	
	SGS-Thomson		
		T74LS352	
		74LS352	
	TI	SN74LS352	
74LS353	**Lansdale**	**SL74LS353**	**(3674)**
	Motorola	SN74LS353	
	SGS-Thomson		
		T74LS353	
		74LS353	
	TI	SN74LS353	
74LS365	**Lansdale**	**SL74LS365A**	**(3674)**
	Motorola	SN74LS365A	
	National	DM74LS365A	
	Rochester	74LS365	
	SGS-Thomson		
		T74LS365A	
		74LS365A	
	TI	SN74LS365A	
74LS366	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	**(3674)**
	Motorola	SN74LS366A	
	National	DM74LS366A	
	SGS-Thomson		
		T74LS366A	
		74LS366A	
	TI	SN74LS366A	
74LS367	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A	
	Rochester	74LS367	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74LS367			(Cont'd)
	SGS-Thomson	T74LS367A	
		74LS367A	
	TI	SN74LS367A	
♦ 74LS367	Rochester	74LS367	
74LS368	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	DM74LS368A	
	Rochester	74LS368	
	SGS-Thomson	T74LS368A	
		74LS368A	
	TI	SN74LS368A	
♦ 74LS368	Rochester	74LS368	
74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37	
	Rochester	74LS37	
	SGS-Thomson	T74LS37	
		74LS37	
	TI	SN74LS37	
♦ 74LS37	Rochester	74LS37	
74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	Motorola	SN74LS373	
	National	DM74LS373	
	SGS-Thomson	T74LS373	
		74LS373	
	TI	SN74LS373	
74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	DM74LS374	
	SGS-Thomson	T74LS374	
		74LS374	
	TI	SN74LS374	
74LS375	**Lansdale**	**SL74LS375**	**(3674)**
	Motorola	SN74LS375	
	TI	SN74LS375	
♦ 74LS376	Rochester	74LS376	
74LS377	GoldStar	GD74LS377	
	Lansdale	**SL74LS377**	**(3674)**
	Motorola	SN74LS377	
	SGS-Thomson	T74LS377	
		74LS377	
	TI	SN74LS377	
74LS378	**Lansdale**	**SL74LS378**	**(3674)**
	Motorola	SN74LS378	
	SGS-Thomson	T74LS378	
		74LS378	
	TI	SN74LS378	
74LS379	Motorola	SN74LS379	
	SGS-Thomson	T74LS379	
		74LS379	
	TI	SN74LS379	
74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38	
	Rochester	74LS38	
	SGS-Thomson	T74LS38	
		74LS38	
	TI	SN74LS38	
♦ 74LS38	Rochester	74LS38	
74LS386	Motorola	SN74LS386	
	Rochester	74LS386	
	TI	SN74LS382A	
♦ 74LS386	Rochester	74LS386	
♦ 74LS39	Rochester	74LS39	
♦ 74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson	T74LS390	
		74LS390	
♦ 74LS390	TI	SN74LS390	
74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
			(Continued)
74LS393			(Cont'd)
	National	DM74LS393	
	SGS-Thomson	T74LS393	
		74LS393	
	TI	SN74LS393	
74LS395	GoldStar	GD74LS395	
	Lansdale	**SL74LS395A**	**(3674)**
	Motorola	SN74LS395	
	SGS-Thomson	T74LS395A	
		74LS395	
	TI	SN74LS395A	
♦ 74LS398	Motorola	SN74LS398	
♦ 74LS399	Motorola	SN74LS399	
	SGS-Thomson	T74LS399	
		74LS399	
♦ 74LS399	TI	SN74LS399	
74LS40	Motorola	SN74LS40	
	SGS-Thomson	T74LS40	
		74LS40	
	TI	SN74LS40	
74LS42	GoldStar	GD74LS42	
	Motorola	SN74LS42	
	National	DM74LS42	
	Rochester	74LS42	
	SGS-Thomson	T74LS42	
		74LS42	
	TI	SN74LS42	
♦ 74LS42	Rochester	74LS42	
74LS447	TI	SN74LS442	
♦ 74LS45	Rochester	74LS45	
74LS47	Motorola	SN74LS47	
	TI	SN74LS47	
74LS48	Motorola	SN74LS48	
	National	DM74LS472A-45	
74LS490	**Lansdale**	**SL74LS490**	**(3674)**
	Motorola	SN74LS490	
	SGS-Thomson	T74LS490	
		74LS490	
74LS503	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
		74LS51	
	TI	SN74LS51	
74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
		74LS51	
	TI	SN74LS51	
♦ 74LS51	Rochester	74LS51	
♦ 74LS53	Rochester	74LS53	
74LS533	**Lansdale**	**SL74LS533**	**(3674)**
	SGS-Thomson	T74LS533	
74LS534	**Lansdale**	**SL74LS534**	**(3674)**
	SGS-Thomson	T74LS534	
74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	Motorola	SN74LS54	
	SGS-Thomson	T74LS54	
		74LS54	
	TI	SN74LS54	
74LS540	**Lansdale**	**SL74LS540**	**(3674)**
	Motorola	SN74LS540	
	SGS-Thomson	T74LS540	
	TI	SN74LS540	
♦ 74LS541	**Lansdale**	**SL74LS541**	**(3674)**
	Motorola	SN74LS541	
	SGS-Thomson	T74LS541	
	TI	SN74LS541	
74LS55	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS541B1	
			(Continued)
74LS55	SGS-Thomson		(Cont'd)
		T74LS55	
		74LS55	
	TI	SN74LS55	
♦ 74LS55	Rochester	74LS55	
♦ 74LS56	Rochester	74LS56	
74LS563	National	74LS564	
74LS564	National	74LS563	
♦ 74LS57	Rochester	74LS57	
74LS573	National	74LS574	
74LS574	National	74LS573	
♦ 74LS58	Rochester	74LS58	
♦ 74LS64	Rochester	74LS64	
74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	DM74LS670	
	Rochester	74LS670	
	SGS-Thomson	T74LS670	
		74LS670	
	TI	SN74LS670	
♦ 74LS670	Rochester	74LS670	
♦ 74LS696	Rochester	74LS696	
74LS74	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74	
	Rochester	74LS74	
	SGS-Thomson	T74LS74A	
		74LS74	
	TI	SN74LS74A	
♦ 74LS74	Rochester	74LS74	
♦ 74LS75	Rochester	74LS75	
74LS83	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A	
	Rochester	74LS83	
	SGS-Thomson	T74LS83A	
		74LS83A	
	TI	SN74LS83A	
♦ 74LS83	Rochester	74LS83	
74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
	National	DM74LS85	
	Rochester	74LS85	
	TI	SN74LS85	
♦ 74LS85	Rochester	74LS85	
74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
	Rochester	74LS86	
	SGS-Thomson	T74LS86	
		74LS86	
	TI	SN74LS86A	
♦ 74LS86	Rochester	74LS86	
♦ 74LS90	Rochester	74LS90	
♦ 74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	SGS-Thomson	T74LS92	
	TI	SN74LS92	
♦ 74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	T74LS93	
		74LS93	
♦ 74LS93	TI	SN74LS93	
♦ 74LS94	Rochester	74LS94	
74LS95B	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	SGS-Thomson	T74LS93B1	
		T74LS95B	
		74LS95B	
	TI	SN74LS95B	
74LVQ125	**Toshiba**	**TC74LVQ138**	**(3837)**
74LVX240	**Toshiba**	**TC74LVX240**	**(3837)**
74LVX244	**Toshiba**	**TC74LVX244**	**(3837)**
			(Continued)
74LVX245	**Toshiba**	**TC74LVX245**	**(3837)**
♦ 74L00	Rochester	74L00	
♦ 74L01	Rochester	74L01	
♦ 74L02	Rochester	74L02	
♦ 74L03	Rochester	74L03	
♦ 74L04	Rochester	74L04	
♦ 74L10	Rochester	74L10	
♦ 74L121	Rochester	74L121	
♦ 74L122	Rochester	74L122	
♦ 74L123	Rochester	74L123	
♦ 74L153	Rochester	74L153	
♦ 74L154	Rochester	74L154A	
♦ 74L157	Rochester	74L157	
♦ 74L164	Rochester	74L164	
♦ 74L165	Rochester	74L165A	
♦ 74L192	Rochester	74L192	
♦ 74L193	Rochester	74L193	
♦ 74L30	Rochester	74L30	
♦ 74L42	Rochester	74L42	
♦ 74L51	Rochester	74L51	
♦ 74L54	Rochester	74L54	
♦ 74L55	Rochester	74L55	
♦ 74L71	Rochester	74L71	
♦ 74L72	Rochester	74L72	
♦ 74L73	Rochester	74L73	
♦ 74L74	Rochester	74L74	
♦ 74L75	Rochester	74L75	
♦ 74L78	Rochester	74L78	
♦ 74L85	Rochester	74L85	
♦ 74L86	Rochester	74L86	
♦ 74L91	Rochester	74L91	
♦ 74L93	Rochester	74L93	
♦ 74L95	Rochester	74L95	
♦ 74L96	Rochester	74L96	
♦ 74L98	Rochester	74L98	
♦ 74L99	Rochester	74L99	
74S00	GoldStar	GD74S00	
	Lansdale	**SL74S00**	**(3675)**
	National	DM74S00	
	TI	SN74S00	
74S02	GoldStar	GD74S02	
	Lansdale	**SL74S02**	**(3675)**
	National	DM74S02	
	TI	SN74S02	
74S03	**Lansdale**	**SL74S03**	**(3675)**
	National	DM74S03	
	Rochester	74S03	
	TI	SN74S03	
♦ 74S03	Rochester	74S03	
74S04	GoldStar	GD74S04	
	Lansdale	**SL74S04**	**(3675)**
	National	DM74S04	
	Rochester	74S04	
	TI	SN74S04	
♦ 74S04	Rochester	74S04	
74S05	GoldStar	GD74S05	
	Lansdale	**SL74S05**	**(3675)**
	National	DM74S05	
	Rochester	74S05	
	TI	SN74S05	
♦ 74S05	Rochester	74S05	
74S08	GoldStar	GD74S08	
	Lansdale	**SL74S08**	**(3675)**
	National	DM74S08	
	TI	SN74S08	
♦ 74S09	Rochester	74S09	
74S10	GoldStar	GD74S10	
	Lansdale	**SL74S10**	**(3675)**
	National	DM74S10	
	TI	SN74S10	
74S109	**Lansdale**	**SL74S11**	**(3675)**
	National	DM74S11	
		74S11	
	Rochester	74S11	
	TI	SN74S11	
74S11	**Lansdale**	**SL74S11**	**(3675)**
	National	DM74S11	
		74S109	
	Rochester	74S11	
	TI	SN74S11	
♦ 74S11	Rochester	74S11	
74S112	GoldStar	GD74S112	
	Lansdale	**SL74S112**	**(3675)**
	National	DM74S112	
	Rochester	74S112	
	TI	SN74S112	
♦ 74S112	Rochester	74S112	
♦ 74S113	National	DM74S113	
	Rochester	74S113	
	TI	SN74S113	
♦ 74S114	Rochester	74S114	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
74S132	TI	SN74S124	
		SN74S132	
74S133	GoldStar	GD74S133	
	Lansdale	**SL74S133**	(3675)
	National	DM74S133	
	Rochester	74S133	
	TI	SN74S133	
♦ 74S133	Rochester	74S133	
♦ 74S134	**Lansdale**	**SL74S134**	(3675)
	Rochester	74S134	
	TI	SN74S134	
74S135	Rochester	74S135	
	TI	SN74S135	
♦ 74S135	Rochester	74S135	
♦ 74S137	Rochester	74S137	
74S138	GoldStar	GD74S138	
	Lansdale	**SL74S138**	(3675)
	National	DM74S138	
	TI	SN74S138	
74S139	GoldStar	GD74S139	
	Lansdale	**SL74S139**	(3675)
	National	DM74S139	
	Rochester	74S139	
	TI	SN74S139	
♦ 74S139	Rochester	74S139	
♦ 74S140	**Lansdale**	**SL74S140**	(3675)
	National	DM74S140	
	TI	SN74S140	
♦ 74S15	TI	SN74S15	
74S151	**Lansdale**	**SL74S151**	(3675)
	National	DM74S151	
	Rochester	74S151	
	TI	SN74S151	
♦ 74S151	Rochester	74S151	
74S153	GoldStar	GD74S153	
	Lansdale	**SL74S153**	(3675)
	National	DM74S153	
	Rochester	74S153	
	TI	SN74S153	
♦ 74S153	Rochester	74S153	
74S157	GoldStar	GD74S157	
	Lansdale	**SL74S157**	(3675)
	National	DM74S157	
	Rochester	74S157	
	TI	SN74S157	
♦ 74S157	Rochester	74S157	
74S158	GoldStar	GD74S158	
	Lansdale	**SL74S158**	(3675)
	National	DM74S158	
	Rochester	74S158	
	TI	SN74S158	
♦ 74S158	Rochester	74S158	
♦ 74S167	GoldStar	GD74S169A	
	TI	SN74S169	
74S174	GoldStar	GD74S174	
	Lansdale	**SL74S174**	(3675)
	National	DM74S174	
	Rochester	74S174	
	TI	SN74S174	
♦ 74S174	Rochester	74S174	
74S175	GoldStar	GD74S175	
	Lansdale	**SL74S175**	(3675)
	National	DM74S175	
	TI	SN74S175	
♦ 74S181	Lansdale	HL7681	
♦ 74S185	Lansdale	HL7685	
♦ 74S188	Lansdale	HL7602	
♦ 74S189	Cypress	CY74S189-35C	
	Lansdale	**SL74S189**	(3675)
	National	DM74S189	
		DM74S189A	
74S194	**Lansdale**	**SL74S194**	(3675)
	National	DM74S194	
	Rochester	74S194	
	TI	SN74S194	
♦ 74S194	Rochester	74S194	
74S20	GoldStar	GD74S20	
	Lansdale	**SL74S20**	(3675)
	National	DM74S20	
	Rochester	74S20	
	TI	SN74S20	
♦ 74S20	Rochester	74S20	
♦ 74S22	TI	SN74S22	
74S253	**Lansdale**	**SL74S253**	(3675)
	National	DM74S253	
	TI	SN74S253	
74S257	GoldStar	GD74S257	
	Lansdale	**SL74S257**	(3675)
	National	DM74S257	
			(Continued)
74S257			(Cont'd)
	Rochester	74S257	
	TI	SN74S257	
♦ 74S257	Rochester	74S257	
74S258	**Lansdale**	**SL74S258**	(3675)
	National	DM74S258	
	Rochester	74S258	
	TI	SN74S258	
♦ 74S258	Rochester	74S258	
♦ 74S260	**Lansdale**	**SL74S260**	(3675)
	Rochester	74S260	
	TI	SN74S260	
74S287	Philips	82S129	
♦ 74S287	Lansdale	HL7611	
♦ 74S288	Lansdale	HL7603	
♦ 74S289	National	DM74S289	
	Rochester	74S289	
74S30	GoldStar	GD74S30	
	National	DM74S30	
	Rochester	74S30	
	TI	SN74S30	
♦ 74S30	Rochester	74S30	
74S32	GoldStar	GD74S32	
	Lansdale	**SL74S32**	(3675)
	National	DM74S32	
	TI	SN74S32	
♦ 74S387	Lansdale	HL7610	
74S40	**Lansdale**	**SL74S40**	(3675)
	National	DM74S40	
	TI	SN74S40	
♦ 74S472	Lansdale	HL7649	
♦ 74S474	Lansdale	HL7641	
♦ 74S475	Lansdale	HL7640	
74S51	GoldStar	GD74S51	
	Lansdale	**SL74S51**	(3675)
	National	DM74S51	
	TI	SN74S482	
		SN74S51	
♦ 74S570	Lansdale	HL7620	
♦ 74S571	Lansdale	HL7621	
♦ 74S572	Lansdale	HL7642	
74S573	Philips	82S137	
♦ 74S573	Lansdale	HL7643	
74S573A	Philips	82S137A	
74S573B	Philips	82S137B	
74S64	GoldStar	GD74S64	
	Lansdale	**SL74S64**	(3675)
	National	DM74S64	
	Rochester	74S64	
	TI	SN74S64	
♦ 74S64	Rochester	74S64	
♦ 74S65	TI	SN74S65	
74S74	GoldStar	GD74S74	
	Lansdale	**SL74S74**	(3675)
	National	DM74S74	
	Rochester	74S74	
	TI	SN74S74	
♦ 74S74	Rochester	74S74	
74S86	GoldStar	GD74S86	
	Lansdale	**SL74S86**	(3675)
	National	DM74S86	
	Rochester	74S86	
	TI	SN74S86	
♦ 74S86	Rochester	74S86	
74VHCT373	**Toshiba**	**TC74VHCT373**	(3837)
74VHC14	**Toshiba**	**TC74VHC14**	(3837)
74VHC373	**Toshiba**	**TC74VHC373**	(3837)
74VHC393	**Toshiba**	**TC74VHC374**	(3837)
		TC74VHC393	(3837)
74VHC573	**Toshiba**	**TC74VHC541**	(3837)
		TC74VHC573	(3837)
74VHC574	**Toshiba**	**TC74VHC574**	(3837)
♦ 7400	**Lansdale**	**ML7400**	(3668)
		SL7400	
♦ 7401	**Lansdale**	**ML7401**	(3668)
		SL7401	
♦ 7401	Rochester	7401	
♦ 7402	**Lansdale**	**ML7402**	(3668)
		SL7402	
♦ 7403	**Lansdale**	**ML7403**	(3668)
		SL7403	
7404	Rochester	7404	
♦ 7404	**Lansdale**	**ML7404**	(3668)
		SL7404	
♦ 7405	**Lansdale**	**ML7405**	(3668)
		SL7405	
			(Continued)
♦ 7406	**Lansdale**	**ML7406**	(3668)
		SL7406	
♦ 7406	Rochester	7406	
♦ 7407	**Lansdale**	**ML7407**	(3668)
		SL7407	
♦ 7407	Rochester	7407	
♦ 7408	**Lansdale**	**ML7408**	(3668)
		SL7408	
♦ 7408	Rochester	7408	
♦ 7409	**Lansdale**	**ML7409**	(3668)
		SL7409	
♦ 7410	**Lansdale**	**ML7410**	(3668)
		SL7410	
♦ 7410	Rochester	7410	
♦ 74107	**Lansdale**	**ML74107**	(3669)
		SL74107	
♦ 74107	Rochester	74107	
♦ 7411	Lansdale	SL7411	
	Rochester	7411	
♦ 7412	Lansdale	ML7412	
	Rochester	7412	
♦ 74122	**Lansdale**	**ML74122**	(3669)
♦ 74125	Lansdale	SL74125	
	Rochester	74125	
♦ 74126	Lansdale	SL74126	
	Rochester	74126	
♦ 7413	**Lansdale**	**ML7413**	(3668)
		SL7413	
♦ 7413	Rochester	7413	
♦ 74132	**Lansdale**	**ML74132**	(3669)
		SL74132	
♦ 74132	Rochester	74132	
♦ 7414	**Lansdale**	**ML7414**	(3668)
		SL7414	
♦ 7414	Rochester	7414	
♦ 74141	Lansdale	ML74141	
	Rochester	74141	
♦ 74152	**Lansdale**	**ML74152**	(3669)
		SL74152	
♦ 74152	Rochester	74152	
♦ 74153	**Lansdale**	**ML74153**	(3669)
		SL74153	
♦ 74153	Rochester	74153	
♦ 74154	**Lansdale**	**ML74154**	(3669)
		ML8311	
		SL74154	
♦ 74156	Rochester	74156	
♦ 74157	Lansdale	ML8322	
		SL74157	
♦ 74157	Rochester	74157	
♦ 7416	**Lansdale**	**ML7416**	(3668)
		SL7416	
♦ 74160	**Lansdale**	**ML74160**	(3669)
		ML8310	
		ML8316	
		SL74160	
♦ 74160	Rochester	74160	
♦ 74162	**Lansdale**	**ML74162**	(3669)
	Rochester	74162	
♦ 74163	**Lansdale**	**ML74163**	(3669)
		SL74163	
♦ 74163	Rochester	74163	
♦ 74164	Lansdale	ML74164	
	Rochester	74164	
♦ 74165	**Lansdale**	**ML74165**	(3669)
	Rochester	74165	
♦ 74166	Lansdale	ML74166	
		SL74166	
♦ 74166	Rochester	74166	
♦ 74167	**Lansdale**	**ML74167**	(3669)
	Rochester	74167	
♦ 7417	**Lansdale**	**ML7417**	(3668)
		SL7417	
♦ 74173	Lansdale	SL74173	
	Rochester	74173	
♦ 74175	**Lansdale**	**ML74175**	(3669)
		SL74175	
♦ 74175	Rochester	74175	
♦ 74176	**Lansdale**	**ML74176**	(3669)
	Rochester	74176	
♦ 74177	**Lansdale**	**ML74177**	(3669)
	Rochester	74177	
♦ 74178	Lansdale	ML74178	
	Rochester	74178	
♦ 74179	Lansdale	ML74179	
	Rochester	74179	
♦ 74180	**Lansdale**	**ML74180**	(3669)
		SL74180	
♦ 74180	Rochester	74180	
♦ 74181	Rochester	74181	
		8181	
		9341	
			(Continued)
♦ 74182	**Lansdale**	**ML74182**	(3669)
		SL74182	
♦ 74182	Rochester	74182	
♦ 74190	**Lansdale**	**ML74190**	(3669)
		SL74190	
♦ 74190	Rochester	74190	
♦ 74191	**Lansdale**	**ML74191**	(3669)
		SL74191	
♦ 74191	Rochester	74191	
♦ 74192	**Lansdale**	**ML74192**	(3669)
		SL74192	
♦ 74192	Rochester	74192	
♦ 74193	**Lansdale**	**ML74193**	(3669)
		SL74193	
♦ 74193	Rochester	74193	
♦ 74194	**Lansdale**	**ML74194**	(3669)
		SL74194	
♦ 74194	Rochester	74194	
♦ 74195	**Lansdale**	**ML74195**	(3669)
		SL74195	
♦ 74195	Rochester	74195	
♦ 74196	**Lansdale**	**ML74196**	(3669)
	Rochester	74196	
♦ 74198	Lansdale	ML74198	
		SL74198	
♦ 74198	Rochester	74198	
♦ 74199	Lansdale	ML74199	
		SL74199	
♦ 74199	Rochester	74199	
♦ 7420	**Lansdale**	**ML7420**	(3668)
		SL7420	
♦ 7420	Rochester	7420	
♦ 7421	Lansdale	SL7421	
	Rochester	7421	
♦ 7422	Rochester	7422	
♦ 7423	**Lansdale**	**ML7423**	(3668)
	Rochester	7423	
♦ 7425	**Lansdale**	**ML7425**	(3668)
		SL7425	
♦ 7425	Rochester	7425	
♦ 74251	Rochester	74251	
♦ 7426	**Lansdale**	**ML7426**	(3668)
		SL7426	
♦ 7426	Rochester	7426	
♦ 7427	**Lansdale**	**ML7427**	(3668)
		SL7427	
♦ 7427	Rochester	7427	
♦ 74279	Lansdale	ML74279	
		SL74279	
♦ 74279	Rochester	74279	
♦ 74290	**Lansdale**	**ML74290**	(3669)
♦ 74293	**Lansdale**	**ML74293**	(3669)
	Rochester	74293	
♦ 74298	**Lansdale**	**ML74298**	(3669)
	Rochester	74298	
♦ 7430	**Lansdale**	**ML7430**	(3668)
		SL7430	
		SL7440	
♦ 7430	Rochester	7430	
♦ 7437	**Lansdale**	**ML7437**	(3668)
		SL7437	
♦ 7437	Rochester	7437	
♦ 7438	**Lansdale**	**ML7438**	(3668)
		SL7438	
♦ 7438	Rochester	7438	
♦ 7439	Lansdale	SL7439	
♦ 7440	**Lansdale**	**ML7440**	(3668)
	Rochester	7440	
♦ 7441	Lansdale	ML7441A	
♦ 7442	**Lansdale**	**ML7442**	(3668)
		SL7442	
♦ 7443	**Lansdale**	**ML7443**	(3668)
	Rochester	7443	
♦ 7444	**Lansdale**	**ML7444**	(3668)
	Rochester	7444	
♦ 7446	Lansdale	ML7446	
	Rochester	7446	
♦ 7447	Lansdale	ML7447	
		SL7447	
♦ 7448	Lansdale	ML7448	
		SL7448	
♦ 7448	Rochester	7448	
7449	Rochester	7449	
♦ 7450	**Lansdale**	**ML7450**	(3668)
		SL7450	
♦ 7450	Rochester	7450	
♦ 7451	**Lansdale**	**ML7451**	(3668)
		SL7451	
♦ 7453	**Lansdale**	**ML7453**	(3668)
		SL7453	
♦ 7453	Rochester	7453	
♦ 7454	**Lansdale**	**ML7454**	(3668)
		SL7454	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
7454	Rochester	7454	
7460	Lansdale	ML7460	
		SL7460	
7460	Rochester	7460	
7470	**Lansdale**	**ML7470**	**(3668)**
		SL7470	
7470	Rochester	7470	
7472	**Lansdale**	**ML7472**	**(3668)**
		SL7472	
7472	Rochester	7472	
7473	**Lansdale**	**ML7473**	**(3668)**
		SL7473	
7474	**Lansdale**	**ML7474**	**(3668)**
		SL7474	
7474	Rochester	7474	
7475	**Lansdale**	**ML7475**	**(3668)**
		SL7475	
7475	Rochester	7475	
7476	**Lansdale**	**ML7476**	**(3668)**
		SL7476	
7476	Rochester	7476	
7477	**Lansdale**	**ML7477**	**(3668)**
	Rochester	7477	
7480	**Lansdale**	**ML7480**	**(3668)**
		SL7480	
7480	Rochester	7480	
7481	Lansdale	ML7481	
7482	Rochester	7482	
7483	**Lansdale**	**ML7483**	**(3668)**
		SL7483	
7483	Rochester	7483	
7485	**Lansdale**	**ML7485**	**(3669)**
		SL7485	
7485	Rochester	7485	
7486	**Lansdale**	**ML7486**	**(3669)**
		SL7486	
7486	Rochester	7486	
7490	Rochester	7490A	
7490	Lansdale	ML7490	
		SL7490	
7490	Rochester	7490	
7491	**Lansdale**	**ML7491A**	**(3669)**
	Rochester	7491	
7492	Lansdale	ML7492	
		SL7492	
7492	Rochester	7492	
7493	Lansdale	ML7493	
		SL7493	
7493	Rochester	7493	
7494	**Lansdale**	**ML7494**	**(3669)**
		SL7494	
7494	Rochester	7494	
7495	Lansdale	ML7495	
		SL7495	
7495	Rochester	7495	
7496	**Lansdale**	**ML7496**	**(3669)**
		SL7496	
7496	Rochester	7496	
7520	Unitrode	PIC7520	
7525	Unitrode	PIC7524	
7529	Unitrode	PIC7529	
7579	Rochester	7579	
7710312	Lansdale	ML1710	
8000	**Lansdale**	**ML7400**	**(3668)**
8001	**Lansdale**	**ML7401**	**(3668)**
		SL7401	
8002	**Lansdale**	**ML7402**	**(3668)**
		SL7402	
8003	**Lansdale**	**ML7403**	**(3668)**
8004	**Lansdale**	**ML7404**	**(3668)**
8010	**Lansdale**	**ML7410**	**(3668)**
8020	**Lansdale**	**ML7420**	**(3668)**
8030	**Lansdale**	**ML7430**	**(3668)**
8040	**Lansdale**	**ML7440**	**(3668)**
8050	**Lansdale**	**ML7450**	**(3668)**
8051	**Lansdale**	**ML7451**	**(3668)**
8053	**Lansdale**	**ML7453**	**(3668)**
		SL7453	
8054	**Lansdale**	**ML7454**	**(3668)**
		SL7454	
8060	Lansdale	ML7460	
		SL7460	
8086	**Lansdale**	**ML7486**	**(3669)**
8200	Lansdale	SL8269	
8283	**Lansdale**	**ML7483**	**(3668)**
8500	**Lansdale**	**ML7476**	**(3668)**
8501	**Lansdale**	**ML7473**	**(3668)**
8510	**Lansdale**	**ML7474**	**(3668)**
8530	Lansdale	ML7490	
♦ 8532	Lansdale	ML7492	
♦ 8533	Lansdale	ML7493	
♦ 8550	**Lansdale**	**ML7475**	**(3668)**
♦ 8580	Lansdale	ML7495	
♦ 8619	Rochester	8619	
87LS9	Hughes	H1831	
		H1832	
87S181	Philips	82S181	
87S181A	Philips	82S181A	
87S185	Philips	82S185	
87S185A	Philips	82S185A	
87S185B	Philips	87S185B	
♦ 87S188	Lansdale	HL7602	
♦ 87S191	Lansdale	HL76161	
87S195A	Philips	82HS195	
87S195B	Philips	82HS195A	
♦ 87S288	Lansdale	HL7603	
87S321	Waferscale	WS57C43	
♦ 8840	Lansdale	ML7441A	
♦ 8842	**Lansdale**	**ML7442**	**(3668)**
♦ 8847	Lansdale	ML7447	
		SL7447	
♦ 8848	Lansdale	ML7448	
		SL7448	
♦ 9H00	**Lansdale**	**ML54H00**	**(3669)**
		ML74H00	**(3669)**
		SL54H00	
		SL74H00	
♦ 9H01	**Lansdale**	**ML54H01**	**(3669)**
		ML74H01	**(3669)**
		SL54H01	
		SL74H01	
♦ 9H04	**Lansdale**	**ML54H04**	**(3669)**
		ML74H04	**(3669)**
♦ 9H05	**Lansdale**	**ML54H05**	**(3669)**
		ML74H05	**(3669)**
♦ 9H08	**Lansdale**	**ML54H08**	**(3669)**
		ML74H08	**(3669)**
		SL54H08	
		SL74H08	
♦ 9H10	**Lansdale**	**ML54H10**	**(3669)**
		ML74H10	**(3669)**
		SL54H10	
		SL74H10	
♦ 9H101	**Lansdale**	**ML54H101**	**(3669)**
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		SL54H101	
		SL74H101	
♦ 9H102	**Lansdale**	**ML54H102**	**(3669)**
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		SL54H102	
		SL74H102	
♦ 9H103	**Lansdale**	**ML54H103**	**(3669)**
		ML74H103	**(3669)**
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		SL74H103	
♦ 9H106	Lansdale	SL74H106	
♦ 9H108	**Lansdale**	**ML54H108**	**(3669)**
		ML74H108	**(3669)**
		SL54H108	
		SL74H108	
♦ 9H11	**Lansdale**	**ML54H11**	**(3669)**
		ML74H11	**(3669)**
		SL54H11	
		SL74H11	
♦ 9H20	**Lansdale**	**ML54H20**	**(3669)**
		ML74H20	**(3669)**
		SL54H20	
		SL74H20	
♦ 9H21	**Lansdale**	**ML74H21**	**(3669)**
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♦ 9H22	**Lansdale**	**ML74H22**	**(3669)**
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♦ 9H30	**Lansdale**	**ML54H30**	**(3669)**
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		SL74H30	
♦ 9H40	**Lansdale**	**ML54H40**	**(3669)**
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♦ 9H50	**Lansdale**	**ML54H50**	**(3669)**
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♦ 9H52	**Lansdale**	**ML54H52**	**(3669)**
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♦ 9H53	**Lansdale**	**ML54H53**	**(3669)**
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♦ 9H54	**Lansdale**	**ML54H54**	**(3669)**
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♦ 9H55	**Lansdale**	**ML54H55**	**(3669)**
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♦ 9H60	**Lansdale**	**ML54H60**	**(3669)**
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♦ 9H61	**Lansdale**	**ML54H61**	**(3669)**
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		SL74H61	
♦ 9H62	**Lansdale**	**ML54H62**	**(3669)**
		ML74H62	**(3669)**
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		SL74H62	
♦ 9H71	**Lansdale**	**ML54H71**	**(3669)**
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		SL54H71	
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♦ 9H72	**Lansdale**	**ML54H72**	**(3669)**
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♦ 9H73	**Lansdale**	**ML54H73**	**(3669)**
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		SL54H73	
		SL74H73	
♦ 9H74	**Lansdale**	**ML54H74**	**(3669)**
		ML74H74	**(3669)**
		SL54H74	
		SL74H74	
♦ 9H76	Lansdale	SL74H76	
♦ 9L00	Rochester	9L00	
♦ 9L04	Rochester	9L04	
♦ 9L24	Rochester	9L24	
♦ 9L54	Rochester	9L54	
♦ 9L86	Rochester	9L86	
♦ 9N00	**Lansdale**	**ML5400**	**(3668)**
		ML7400	**(3668)**
♦ 9N01	**Lansdale**	**ML5401**	**(3668)**
		ML7401	**(3668)**
		SL5401	
		SL7401	
♦ 9N02	**Lansdale**	**ML5402**	**(3668)**
		ML7402	**(3668)**
		SL5402	
		SL7402	
♦ 9N03	**Lansdale**	**ML5403**	**(3668)**
		ML7403	**(3668)**
♦ 9N04	**Lansdale**	**ML5404**	**(3668)**
		ML7404	**(3668)**
♦ 9N05	**Lansdale**	**ML5405**	**(3668)**
		ML7405	**(3668)**
♦ 9N06	**Lansdale**	**ML5406**	**(3668)**
		ML7406	**(3668)**
♦ 9N07	**Lansdale**	**ML5407**	**(3668)**
		ML7407	**(3668)**
♦ 9N08	**Lansdale**	**ML5408**	**(3668)**
		ML7408	**(3668)**
♦ 9N09	**Lansdale**	**ML5409**	**(3668)**
		ML7409	**(3668)**
		SL5409	
		SL7409	
♦ 9N10	**Lansdale**	**ML5410**	**(3668)**
		ML7410	**(3668)**
♦ 9N107	**Lansdale**	**ML54107**	**(3668)**
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♦ 9N12	Lansdale	ML5412	
♦ 9N123	**Lansdale**	**ML54123**	**(3668)**
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♦ 9N13	**Lansdale**	**ML5413**	**(3668)**
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♦ 9N132	**Lansdale**	**ML54132**	**(3668)**
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♦ 9N14	**Lansdale**	**ML5414**	**(3668)**
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♦ 9N16	**Lansdale**	**ML5416**	**(3668)**
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♦ 9N17	**Lansdale**	**ML5417**	**(3668)**
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♦ 9N20	**Lansdale**	**ML5420**	**(3668)**
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♦ 9N21	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
♦ 9N22	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
♦ 9N23	**Lansdale**	**ML5423**	**(3668)**
		ML7423	**(3668)**
♦ 9N25	**Lansdale**	**ML5425**	**(3668)**
		ML7425	**(3668)**
♦ 9N26	**Lansdale**	**ML5426**	**(3668)**
		ML7426	**(3668)**
♦ 9N27	**Lansdale**	**ML5427**	**(3668)**
		ML7427	**(3668)**
♦ 9N30	**Lansdale**	**ML5430**	**(3668)**
		ML7430	**(3668)**
♦ 9N37	**Lansdale**	**ML5437**	**(3668)**
		ML7437	**(3668)**
♦ 9N38	**Lansdale**	**ML5438**	**(3668)**
		ML7438	**(3668)**
♦ 9N40	**Lansdale**	**ML5440**	**(3668)**
		ML7440	**(3668)**
♦ 9N50	**Lansdale**	**ML5450**	**(3668)**
		ML7450	**(3668)**
♦ 9N51	**Lansdale**	**ML5451**	**(3668)**
		ML7451	**(3668)**
♦ 9N53	**Lansdale**	**ML5453**	**(3668)**
		ML7453	**(3668)**
		SL5453	
		SL7453	
♦ 9N54	**Lansdale**	**ML5454**	**(3668)**
		ML7454	**(3668)**
		SL5454	
		SL7454	
♦ 9N60	Lansdale	ML5460	
		ML7460	
		SL5460	
		SL7460	
♦ 9N70	**Lansdale**	**ML5470**	**(3668)**
		ML7470	**(3668)**
		SL5470	
		SL7470	
♦ 9N72	**Lansdale**	**ML5472**	**(3668)**
		ML7472	**(3668)**
		SL5472	
		SL7472	
♦ 9N73	**Lansdale**	**ML5473**	**(3668)**
		ML7473	**(3668)**
♦ 9N74	**Lansdale**	**ML5474**	**(3668)**
		ML7474	**(3668)**
♦ 9N76	**Lansdale**	**ML5476**	**(3668)**
		ML7476	**(3668)**
♦ 9N86	**Lansdale**	**ML5486**	**(3668)**
		ML7486	**(3669)**
♦ 9S41	Rochester	9S41	
♦ 9S42	Rochester	9S42	
♦ 900	Rochester	900	
♦ 9000	Rochester	9000	
♦ 9001	**Lansdale**	**ML3052**	**(3667)**
	Rochester	9001	
♦ 9002	**Lansdale**	**ML7400**	**(3668)**
	Rochester	9002	
♦ 9003	**Lansdale**	**ML7410**	**(3668)**
	Rochester	9003	
♦ 9004	**Lansdale**	**ML7420**	**(3668)**
	Rochester	9004	
♦ 9005	**Lansdale**	**ML7450**	**(3668)**
	Rochester	9005	
♦ 9006	Lansdale	ML7460	
		SL7460	
♦ 9006	Rochester	9006	
♦ 9007	**Lansdale**	**ML3115**	**(3667)**
	Rochester	9007	
♦ 9008	Rochester	9008	
♦ 9009	**Lansdale**	**ML7440**	**(3668)**
	Rochester	9009	
♦ 901	Rochester	901	
♦ 9012	Rochester	9012	
♦ 9014	Rochester	9014	
9015	Rochester	9015	
♦ 9016	**Lansdale**	**ML7404**	**(3668)**
	Rochester	9016	
9017	Rochester	9017	
♦ 902	Rochester	902	
♦ 9020	Rochester	9020	
9022	Rochester	9022	
♦ 9024	Rochester	7124	
		9024	
♦ 903	Rochester	903	
♦ 9030	Rochester	9030	
♦ 904	Rochester	904	
♦ 905	Rochester	905	
♦ 906	Rochester	906	
♦ 907	Rochester	907	
♦ 908	Rochester	908	
♦ 909	Rochester	909	
♦ 9093	Lansdale	ML853	
	Rochester	9093	
♦ 909351	Lansdale	ML953	
♦ 909359	Lansdale	ML853	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.

Performance details often differ, so compare the specifications considering your requirements.

National Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ 9094	Lansdale	ML856	
	Rochester	9094	
◆ 909451	Lansdale	ML956	
◆ 909459	Lansdale	ML856	
◆ 9097	Lansdale	ML855	
	Rochester	9097	
◆ 909751	Lansdale	ML955	
◆ 909759	Lansdale	ML855	
◆ 9098	Rochester	9098	
◆ 9099	Lansdale	ML852	
	Rochester	9099	
◆ 909951	Lansdale	ML952	
◆ 909959	Lansdale	ML852	
◆ 910	Rochester	910	
◆ 9109	Rochester	9109	
◆ 911	Rochester	911	
◆ 9110	Rochester	9110	
◆ 9111	Rochester	9111	
◆ 912	Rochester	912	
◆ 913	Rochester	913	
◆ 9135	Lansdale	ML840	
	Rochester	9135	
◆ 913551	Lansdale	ML935	
◆ 913559	Lansdale	ML835	
◆ 914	Rochester	914	
◆ 915	Rochester	915	
◆ 9152	Rochester	9152	
◆ 9153	Rochester	9153	
◆ 9157	Lansdale	ML857	
	Rochester	9157	
◆ 915751	Lansdale	ML957	
◆ 915759	Lansdale	ML857	
◆ 9158	Lansdale	ML858	
	Rochester	9158	
◆ 915851	Lansdale	ML958	
◆ 915859	Lansdale	ML858	
◆ 921	Rochester	921	
◆ 923	Rochester	923	
◆ 926	Rochester	926	
◆ 927	Rochester	927	
◆ 93H00	Rochester	93H00	
◆ 93H72	Rochester	93H72	
◆ 93L00	Rochester	93L00	
◆ 93L01	Rochester	93L01	
◆ 93L09	Rochester	93L09	
◆ 93L10	Rochester	93L10	
◆ 93L11	Rochester	93L11	
◆ 93L12	Rochester	93L12	
◆ 93L16	Rochester	93L16	
◆ 93L18	Rochester	93L18	
◆ 93L21	Rochester	93L21	
◆ 93L22	Rochester	93L22	
◆ 93L41	Rochester	93L41	
◆ 93L415	Rochester	93L415	
93L422	AMD	AM93L422	
	Cypress	CY7C122	
		CY93L422	
		CY93422	
◆ 93L422	Rochester	93L422	
◆ 93L422A	Rochester	93L422A	
93L425	AMD	AM93L425	
◆ 93L425	Rochester	93L425	
◆ 93S00	Rochester	93S00	
◆ 93S12	Rochester	93S12	
◆ 93S16	Rochester	93S16	
◆ 93S42	Rochester	93S42	
◆ 93S43	Rochester	93S43	
◆ 93S46	Rochester	93S46	
◆ 93S62	Rochester	93S62	
93Z451	AMD	AM27S181	
	Fujitsu	MB7132	
	Philips	82S181	
◆ 93Z451	Lansdale	HL7681	
	Rochester	93Z451	
93Z510	Waferscale	WS57C291	
93Z511	Fujitsu	MB71A38	
		MB7138	
	Philips	N82S191A	
		82S191	
	Waferscale	WS57C191	
		WS57C291	
◆ 93Z511	Lansdale	HL76161	
93Z512	Waferscale	WS57C291	
93Z565	AMD	AM27S49	
	Fujitsu	MB71C44	
		MB7144	
	Waferscale	WS57C49	
◆ 93Z565	Lansdale	HL76641	
93Z611	Philips	82S191	
93Z65	Philips	82HS641	
93Z665	Fujitsu	MB71C44	
		MB7144	
	Philips	82HS641	
	Waferscale	WS57C49	
◆ 93Z665	Rochester	93Z665	
93Z667	Fujitsu	MB71C44	
		MB7144	
	Philips	82HS641	
	Waferscale	WS57C49	
◆ 93Z667	Rochester	93Z667	
◆ 930	Lansdale	ML830	
	Rochester	930	
◆ 9300	Lansdale	ML9300	
◆ 9301	Lansdale	ML9301	
	Rochester	9301	
◆ 9302	Rochester	9302	
◆ 9304	Lansdale	ML9304	
	Rochester	9304	
◆ 9305	Rochester	9305	
◆ 9306	Lansdale	ML9306	
◆ 9307	Lansdale	ML5448	
		ML9307	
		SL5448	
◆ 9307	Rochester	9307	
◆ 9308	Lansdale	ML9308	
◆ 9309	Lansdale	ML9309	
	Rochester	8309	
		9309	
◆ 931	Rochester	931	
◆ 9310	Lansdale	ML8310	
		ML9310	
◆ 9310	Rochester	9310	
◆ 9311	Lansdale	ML8311	
		ML9311	
◆ 9312	Lansdale	ML9312	
		SL8230	
◆ 9312	Rochester	9312	
◆ 9313	Rochester	9313	
◆ 9314	Lansdale	ML9314	
◆ 93141	Lansdale	ML54141	
◆ 93145	Lansdale	ML74145	
◆ 9315	Lansdale	ML5441A	
		ML7441A	
◆ 9315	Rochester	9315	
◆ 93150	**Lansdale**	**ML74150**	**(3669)**
◆ 93153	**Lansdale**	**ML74153**	**(3669)**
◆ 93155	**Lansdale**	**ML74155**	**(3669)**
◆ 93156	Lansdale	ML74156	
◆ 9316	Lansdale	ML8316	
		ML9316	
◆ 93160	**Lansdale**	**ML74160**	**(3669)**
◆ 93161	**Lansdale**	**ML74161**	**(3669)**
◆ 93162	**Lansdale**	**ML74162**	**(3669)**
◆ 93163	**Lansdale**	**ML74163**	**(3669)**
◆ 93164	Lansdale	ML74164	
◆ 93165	**Lansdale**	**ML74165**	**(3669)**
◆ 93166	Lansdale	ML74166	
◆ 9317	Rochester	9317	
◆ 93174	**Lansdale**	**ML74174**	**(3669)**
◆ 93175	**Lansdale**	**ML74175**	**(3669)**
◆ 93176	**Lansdale**	**ML74176**	**(3669)**
◆ 93177	**Lansdale**	**ML74177**	**(3669)**
◆ 9318	Lansdale	ML9318	
	Rochester	54148	
		7618	
		8618	
		9318	
◆ 93180	**Lansdale**	**ML74180**	**(3669)**
◆ 9319	Rochester	9319	
◆ 93190	**Lansdale**	**ML74190**	**(3669)**
◆ 93191	**Lansdale**	**ML74191**	**(3669)**
◆ 93194	**Lansdale**	**ML74194**	**(3669)**
◆ 93195	**Lansdale**	**ML74195**	**(3669)**
◆ 93196	**Lansdale**	**ML74196**	**(3669)**
◆ 93197	**Lansdale**	**ML74197**	**(3669)**
◆ 93198	Lansdale	ML54198	
		ML74198	
		SL54198	
		SL74198	
◆ 93199	Lansdale	ML74199	
◆ 932	Lansdale	ML832	
	Rochester	932	
◆ 9320	Rochester	9320	
◆ 9322	Lansdale	ML8322	
		ML9322	
◆ 9325	Lansdale	ML54141	
		ML74141	
◆ 9328	Lansdale	SL8277	
◆ 933	Lansdale	ML833	
	Rochester	933	
◆ 9334	Rochester	8334	
		9324	
			(Continued)
◆ 9340	Rochester	9340	
◆ 93403	Lansdale	ML4064	
◆ 93407	**Lansdale**	**ML4004**	**(3667)**
		ML4304	**(3667)**
◆ 9341	**Lansdale**	**ML54181**	**(3668)**
		ML74181	**(3669)**
◆ 9341	Rochester	7181	
		8181	
		9341	
◆ 93415	Rochester	93415	
◆ 93417	Lansdale	HL7610	
◆ 93419	Rochester	93419	
◆ 9342	**Lansdale**	**ML54182**	**(3668)**
		ML74182	**(3669)**
		SL54182	
		SL74182	
◆ 9342	Rochester	9342	
◆ 93422	Rochester	93422	
◆ 93422A	Rochester	93422A	
◆ 93425	Rochester	93425	
◆ 93427	Lansdale	HL7611	
◆ 93434	Lansdale	ML4002	
◆ 93436	Lansdale	HL7620	
◆ 93438	Lansdale	HL7640	
◆ 9344	Rochester	9344	
◆ 93448	Lansdale	HL7641	
◆ 9345	Lansdale	ML5445	
		ML7445	
◆ 93451	Lansdale	HL7681	
◆ 93452	Lansdale	HL7642	
◆ 93453	Lansdale	HL7643	
9346	**Catalyst Semi**	**CAT93C46**	**(3565)**
◆ 93466	Lansdale	HL7621	
◆ 9348	Rochester	9348	
◆ 9349	**Lansdale**	**ML54180**	**(3668)**
		ML74180	**(3669)**
◆ 935	Lansdale	ML840	
	Rochester	935	
◆ 93515	Lansdale	HL76165	
◆ 9352	**Lansdale**	**ML5442**	**(3668)**
		ML7442	**(3668)**
◆ 9353	**Lansdale**	**ML5443**	**(3668)**
		ML7443	**(3668)**
◆ 9354	**Lansdale**	**ML5444**	**(3668)**
		ML7444	**(3668)**
◆ 9357	Lansdale	ML7446	
		ML7447	
		SL7447	
◆ 9358	Lansdale	ML7448	
		SL7448	
◆ 9358	Rochester	9358	
◆ 936	Lansdale	ML836	
	Rochester	936	
◆ 9360	**Lansdale**	**ML54192**	**(3668)**
		ML74192	**(3669)**
◆ 9366	**Lansdale**	**ML54192**	**(3668)**
		ML74192	**(3669)**
		ML74193	**(3669)**
◆ 937	Lansdale	ML837	
	Rochester	937	
◆ 9375	**Lansdale**	**ML5475**	**(3668)**
		ML7475	**(3668)**
◆ 938	Rochester	938	
◆ 9380	**Lansdale**	**ML5480**	**(3668)**
		ML7480	**(3668)**
		SL5480	
		SL7480	
◆ 9383	**Lansdale**	**ML5483**	**(3668)**
◆ 9385	**Lansdale**	**ML7485**	**(3669)**
◆ 9386	Rochester	9386	
◆ 9390	Lansdale	ML5490	
		ML7490	
◆ 9391	**Lansdale**	**ML5491A**	**(3668)**
		ML7491A	**(3669)**
◆ 9392	Lansdale	ML5492	
		ML7492	
◆ 9393	Lansdale	ML5493	
		ML7493	
◆ 9394	**Lansdale**	**ML5494**	**(3668)**
		ML7494	**(3669)**
◆ 9395	Lansdale	ML5495	
		ML7495	
◆ 9396	**Lansdale**	**ML5496**	**(3668)**
		ML7496	**(3669)**
◆ 9408	Rochester	9408	
◆ 941	Rochester	941	
◆ 944	Rochester	944	
◆ 945	Lansdale	ML845	
	Rochester	945	
◆ 946	Lansdale	ML846	
	Rochester	946	
			(Continued)
◆ 948	Lansdale	ML848	
	Rochester	948	
◆ 949	Lansdale	ML849	
	Rochester	949	
◆ 95H00	Rochester	95H00	
95H90	GEC Plessey	SP8647	
◆ 950	Rochester	950	
◆ 95016	Rochester	95016	
◆ 95029	Rochester	95029	
◆ 951	Rochester	951	
◆ 95105	Rochester	95105	
◆ 95231	Rochester	95231	
◆ 9528	Rochester	9528	
◆ 953	Rochester	953	
◆ 95400	Rochester	95400	
◆ 958	Rochester	958	
◆ 9580	Rochester	9580	
◆ 9582	Rochester	9582	
◆ 959	Rochester	959	
◆ 96LS488	Rochester	96LS488	
◆ 960	Rochester	960	
◆ 9600	Rochester	9600	
◆ 9601	Lansdale	ML9601	
◆ 9602	Lansdale	ML9602	
	Rochester	9602	
◆ 9603	**Lansdale**	**ML54121**	**(3668)**
		ML74121	**(3669)**
◆ 961	Lansdale	ML861	
	Rochester	961	
◆ 96103	Rochester	96103	
◆ 96106	Rochester	96106	
◆ 962	Lansdale	ML862	
	Rochester	962	
◆ 9620	Rochester	9620	
◆ 9621	Rochester	9621	
◆ 9624	Rochester	9624	
◆ 963	Lansdale	ML863	
	Rochester	963	
◆ 964	Rochester	964	
◆ 966	Rochester	966	
9665	Allegro Micro	ULN2001	
9667	Allegro Micro	ULN2003	
9668	Allegro Micro	ULN2004	
◆ 967	Rochester	967	
◆ 968	Rochester	968	
◆ 971	Rochester	971	
◆ 974	Rochester	974	
◆ 9801	Rochester	9801	
◆ 9806	Rochester	9806	
◆ 9816	Rochester	9816	
◆ 9820	Rochester	9820	
◆ 9821	Rochester	9821	
◆ 9822	Rochester	9822	
◆ 9823	Rochester	9823	
◆ 9824	Rochester	9824	
◆ 9828	Rochester	9828	
◆ 9834	Rochester	9834	
◆ 9838	Rochester	9838	
◆ 9852	Rochester	9852	
◆ 9853	Rochester	9853	
◆ 9854	Rochester	9854	
◆ 9855	Rochester	9855	
◆ 9856	Rochester	9856	
◆ 9863	Rochester	9863	
◆ 9864	Rochester	9864	
◆ 9865	Rochester	9865	
◆ 9866	Rochester	9866	
◆ 9871	Rochester	9871	
◆ 9872	Rochester	9872	
◆ 9874	Rochester	9874	
◆ 9875	Rochester	9875	
◆ 9877	Rochester	9877	
◆ 9881	Rochester	9881	
◆ 9883	**Lansdale**	**ML7483**	**(3668)**
	Rochester	9883	
◆ 989	Rochester	989	
◆ 993051	Lansdale	ML930	
◆ 993059	Lansdale	ML830	
◆ 993151	Lansdale	ML931	
◆ 993159	Lansdale	ML831	
◆ 993251	Lansdale	ML932	
◆ 993259	Lansdale	ML832	
◆ 993351	Lansdale	ML933	
◆ 993359	Lansdale	ML833	
◆ 993551	Lansdale	ML940	
◆ 993559	Lansdale	ML840	
◆ 993651	Lansdale	ML936	
◆ 993659	Lansdale	ML836	
◆ 993751	Lansdale	ML937	
◆ 993759	Lansdale	ML837	
			(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
994151	Lansdale	ML941	
994159	Lansdale	ML841	
994451	Lansdale	ML944	
994551	Lansdale	ML945	
994559	Lansdale	ML845	
994651	Lansdale	ML946	
994659	Lansdale	ML846	
994851	Lansdale	ML948	
994859	Lansdale	ML848	
994951	Lansdale	ML949	
994959	Lansdale	ML849	
995051	Lansdale	ML950	
995059	Lansdale	ML850	
995151	Lansdale	ML951	
995159	Lansdale	ML851	
9956	Rochester	9956	
9958	Rochester	9958	
9959	Rochester	9959	
9960	Rochester	9960	
996151	Lansdale	ML961	
996159	Lansdale	ML861	
996251	Lansdale	ML962	
996259	Lansdale	ML862	
996351	Lansdale	ML963	
996359	Lansdale	ML863	

NCR Microelectronic

Manufacturer Device	Replacement Source	Device	IC Master Page
NCR52210	Catalyst Semi	CAT22C10	
NCR52212	Catalyst Semi	CAT22C12	
NCR53C80	LogicDev	L53C80	
NCR5380	LogicDev	L5380	
	Zilog	Z05380	
NCR59308	**Catalyst Semi**	**CAT93C46**	**(3565)**
NCR65C21	**Rockwell**	**R65C21**	**(3759)**
NCR65C22	**Rockwell**	**R65C22**	**(3759)**
NCR6500	**Rockwell**	**R6500**	**(3760)**
NCR6501	Rockwell	R6501	
NCR6511	Rockwell	R6511	
NCR6512	**Rockwell**	**R6512**	**(3759)**
NCR6513	Rockwell	R6513	
53C80	AMD	AM53C80A	
53C94-100	AMD	AM53C96	
53C94-84-84	AMD	AM53C94	
5380	Samsung	KS53C80	
90C26	SMC	COM90C26	
90C32	SMC	COM90C32	

NEC Electronics

Manufacturer Device	Replacement Source	Device	IC Master Page
µPc741	AnalogSys	MA332	
µPA101	Harris	HFA3101	
µPA102	Harris	HFA3102	
µPA2001	Allegro Micro	ULN2001	
µPA2003	Allegro Micro	ULN2003	
µPA2004	Allegro Micro	ULN2004	
◆ µPA8080A	**Lansdale**	**IL8080A**	**(3664)**
µPB100474	Cypress	CY100E474	
	Fujitsu	MBM100474	
	Hitachi	HM100470	
		HM100474	
	Motorola	MCM100474	
	National	DM100474	
µPB100480	Fujitsu	MBM100480	
µPB100484	Fujitsu	MBM100484	
µPB10474	Cypress	CY10E474	
	Fujitsu	MBM10474	
	Hitachi	HM10474	
	Motorola	MCM10474	
	National	DM10474	
µPB10484	Fujitsu	MBM10484	
◆ µPB2905	Lansdale	AL2905	
◆ µPB2906	Lansdale	AL2906	
◆ µPB423	Lansdale	HL7611	
µPB429	Waferscale	WS57C191	
		WS57C291	
µPB581	GEC Plessey	SP8812	
µPB582	GEC Plessey	SP8814	
µPB584	GEC Plessey	SP8812	
µPB585	GEC Plessey	SP8814	
µPB587	GEC Plessey	SP8824	
		SP8828	
◆ µPB8212	**Lansdale**	**IL8212**	**(3664)**
◆ µPB8214	**Lansdale**	**IL8214**	**(3664)**
µPB8216	Motorola	MC8T26	
◆ µPB8216	**Lansdale**	**IL8216**	**(3664)**
◆ µPB8224	**Lansdale**	**IL8224**	**(3664)**
µPB8226	Motorola	MC8T28	
◆ µPB8226	**Lansdale**	**IL8226**	**(3664)**
◆ µPB8228	**Lansdale**	**IL8228**	**(3664)**
µPB8284A	Siemens	SAB8284	
µPB8288	Siemens	SAB8288A	
◆ µPB8403	Lansdale	HL7610	
◆ µPB8405	Lansdale	HL7640	
◆ µPB8425	Lansdale	HL7641	
◆ µPB8426	Lansdale	HL7643	
◆ µPB8428	Lansdale	HL7681	
◆ µPB8429	Lansdale	HL76161	
µPC1251	**NJR**	**NJM2904**	**(3704)**
µPC1373	Motorola	MC3373	
µPC1458	AD	OP14	
	AnalogSys	MA336	
		MA372	
	NJR	NJM1458	
	Panasonic	AN1458	
		AN6572	
	SGS-Thomson	MC1458	
µPC1474	GEC Plessey	SL486	
µPC151	AnalogSys	MA332	
		MA333	
		MA362	
	NJR	NJM741	
	Unitrode	PIC7504	
µPC1555	SGS-Thomson	NE555	
µPC1558	SGS-Thomson	MC1558	
µPC156	SGS-Thomson	LM208	
µPC157	AnalogSys	MA332	
		MA333	
		MA362	
	SGS-Thomson	LM201	
µPC1571	Philips	NE571	
µPC159	AnalogSys	MA332	
		MA362	
	NJR	**NJM318**	**(3704)**
	SGS-Thomson	LM318	
	TI	LM318	
µPC177	NJR	NJM2901	
µPC1913	Samsung	KS5803	
µPC251	AnalogSys	MA336	
		MA372	
	Motorola	MC1458	
	NJR	NJM1458	
	Panasonic	AN1458	
		AN6572	
	SGS-Thomson	MC1458	
µPC258	AnalogSys	MA336	
		MA372	
	NJR	**NJM4558**	**(3704)**
	Panasonic	AN4558	
		AN6552	
	Philips	LM258	
		SA532	
µPC259	AnalogSys	MA336	
		MA372	
	NJR	**NJM4560**	**(3704)**
		NJM4565	
µPC271	NJR	NJM311	
	Panasonic	AN1311	
	SGS-Thomson	LM211	
µPC272	NJR	NJM319	
	Panasonic	AN1319	
	SGS-Thomson	LM219	
µPC277	NJR	NJM2903	
	Panasonic	AN1393	
		AN6914	
µPC301	AD	OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
	SGS-Thomson	LM301	
µPC311	**AD**	**PM211**	**(3539)**
	NJR	NJM311	
	Panasonic	AN1311	
	SGS-Thomson	LM311	
µPC318	AD	OP42	
	NJR	**NJM318**	**(3704)**
µPC319	AD	PM219	
	NJR	NJM319	
	Panasonic	AN1319	
	Philips	LM319	
	SGS-Thomson	LM319	
µPC324	AD	OP421	
	AnalogSys	MA374	
	NJR	NJM324	
	Panasonic	AN1324	
		AN6564	
	SGS-Thomson	LM324	
µPC339	**AD**	**PM139**	**(3539)**
	NJR	NJM2901	
	SGS-Thomson	LM339	
µPC3403	AD	OP421	
	NJR	NJM3403	
	SGS-Thomson	MC3403	
µPC354	AnalogSys	MA332	
		MA333	
		MA362	
	NJR	NJMOP07	
	TI	OP07	
µPC356	**AD**	**PM139**	**(3539)**
		PM356	
	SGS-Thomson	LF356	
µPC357	AD	OP17	
	Harris	CA3130	
	SGS-Thomson	LF357	
µPC358	AD	OP221	
	NJR	**NJM2904**	**(3704)**
	Panasonic	AN1358	
		AN6562	
	SGS-Thomson	LM358	
µPC374	AnalogSys	MA374	
µPC393	NJR	NJM2903	
	Panasonic	AN1393	
		AN6914	
	SGS-Thomson	LM393	
µPC4062	**NJR**	**NJM062**	**(3704)**
µPC4064	**NJR**	**NJM064**	**(3704)**
µPC4071	AD	OP15	
µPC4072	NJR	NJM072	
µPC4074	**NJR**	**NJM074**	**(3704)**
µPC4081	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Panasonic	AN1081	
µPC4082	AD	OP215	
	AnalogSys	MA336	
		MA372	
	NJR	NJM082	
	Panasonic	AN1082	
µPC4084	AnalogSys	MA374	
	NJR	NJM084	
	Panasonic	AN1084	
µPC4250	AD	OP22	
	NJR	**NJM4250**	**(3704)**
	Panasonic	AN4250	
µPC451	AnalogSys	MA374	
	NJR	NJM2902	
		NJM324	
	Panasonic	AN1324	
		AN6564	
	SGS-Thomson	LM224	
µPC452	NJR	NJM3403	
	SGS-Thomson	MC3303	
µPC4556	AnalogSys	MA336	
		MA372	
	NJR	NJM4562	
µPC4557	AnalogSys	MA336	
		MA372	
µPC4558	AnalogSys	MA336	
		MA372	
	NJR	**NJM4558**	**(3704)**
	Panasonic	AN4558	
		AN6552	
	SGS-Thomson	MC4558	
µPC4559	AnalogSys	MA336	
		MA372	
	NJR	NJM4559	
	Panasonic	AN6553	
		AN6556	
µPC4560	AnalogSys	MA336	
		MA372	
	NJR	**NJM4560**	**(3704)**
		NJM4565	
µPC4570	**NJR**	**NJM2068**	**(3704)**
	Panasonic	AN1883	
µPC458	AnalogSys	MA374	
	NJR	**NJM2058**	**(3704)**
	Panasonic	AN6554	
		NJM4741	
µPC4741	AnalogSys	MA374	
	NJR	**NJM2058**	**(3704)**
	Panasonic	AN6554	
		NJM4741	
	SGS-Thomson	LM348	
µPC6012	AD	DAC312	
µPC624	AD	DAC08	
µPC741	AnalogSys	MA333	
		MA362	
	NJR	NJM741	
µPC78L05	Panasonic	AN78L05	
µPC78L08	Panasonic	AN78L08	
µPC78L10	Panasonic	AN78L10	
µPC78L12	Panasonic	AN78L12	
µPC78L15	Panasonic	AN78L15	
µPC78N05	Panasonic	AN78N05	
µPC78N08	Panasonic	AN78N08	
µPC78N10	Panasonic	AN78N10	
µPC78N12	Panasonic	AN78N12	
µPC78N15	Panasonic	AN78B15	
µPC78N18	Panasonic	AN78N18	
µPC78N24	Panasonic	AN78N24	
µPC7805	Samsung	MC7805	
µPC7808	Samsung	MC7808	
µPC7812	Samsung	MC7812	
µPC7815	Samsung	MC7815	
µPC7824	Samsung	MC7824	
µPC7905	Samsung	MC7905	
µPC7912	Samsung	MC7912	
µPC7915	Samsung	MC7915	
µPC801	AnalogSys	MA332	
		MA333	
		MA362	
	Panasonic	AN1081	
	TI	LF351	
		TL071	
		TL081	
µPC802	**NJR**	**NJM4250**	**(3704)**
	Panasonic	AN4250	
µPC803	AnalogSys	MA336	
		MA372	
	NJR	NJM082	
	Panasonic	AN1082	
µPC804	NJR	NJM084	
	Panasonic	AN1084	
µPC811	AD	OP15	
µPC812	AD	OP215	
µPC813	AD	OP16	
µPC822	NJR	NJM072	
		NJM074	**(3704)**
µPC832	**NJR**	**NJM062**	**(3704)**
µPC834	**NJR**	**NJM064**	**(3704)**
µPDC1024	Catalyst Semi	CAT27C210	
µPD10A484	Cypress	CY10E484	
	Synergy	SY10484	
µPD100A484	Cypress	CY100E484	
	Synergy	SY100484	
µPD100422	Cypress	CY100E422	
	Synergy	SY100L422	
µPD100470	Cypress	CY100E470	
µPD100474	Cypress	CY100E474	
	Synergy	SY100474	
µPD100480	Synergy	SY100480	
µPD100504	Hitachi	HM100504	
µPD10422	Cypress	CY10E422	
	Synergy	SY10E422	
µPD10470	Cypress	CY10E470	
µPD10474	Cypress	CY10E474	
	Synergy	SY10474	
µPD10474A	Cypress	CY10E474	
µPD10480	Synergy	SY10480	
µPD10484	Cypress	CY10E484	
µPD10504	Hitachi	HM10504	
µPD1719	Samsung	KS55C232	
µPD1943	Samsung	KS5803	
µPD2114	AMD	AM9114	
µPD2147	AMD	AM2147	
	Cypress	CY2147	
		CY7C147	
	Krueger	**2147-35**	**(3663)**
		2147-45	**(3663)**

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
μPD2147	**Krueger**		(Cont'd)
		2147-55	**(3663)**
		2147-70	**(3663)**
μPD2149	AMD	AM2149	
	Cypress	CY2149	
	Krueger	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
μPD2167	AMD	AM2167	
	Cypress	CY7C167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
μPD23C1000	GoldStar	GM231000	
	OKI	MSM531000A	
	Samsung	KM23C1000	
	UMC	UM23C1024	
		UM23C1025	
μPD23C1001	OKI	MSM531001A	
	Samsung	KM23C1010	
	Toshiba	TC531001	
	UMC	UM23C1025	
μPD23C1010	Samsung	KM23C1001	
	UMC	UM23C1024	
μPD23C1011	Panasonic	MN231002	
μPD23C1024	Toshiba	TC531024	
μPD23C128	UMC	UM23C128	
μPD23C1600	Toshiba	TC5316200	
μPD23C16000	Panasonic	MN2316000	
	Samsung	KM23C16000	
	Sharp	LH5375	
μPD23C2000	Samsung	KM23C2100	
	UMC	UM23C2000	
μPD23C2001	OKI	MSM532001A	
	Samsung	KM23C2000	
	UMC	UM23C2001	
μPD23C256	OKI	MSM53256	
	UMC	UM23C256	
μPD23C4000	GoldStar	GM23C4100	
	OKI	MSM534002A	
	Panasonic	MN234000	
	Samsung	KM23C4100	
	UMC	UM23C4000	
μPD23C4001	OKI	MSM534001A	
	Samsung	KM23C4000	
	Sharp	LH534	
	UMC	UM23C4001	
μPD23C4001E	GoldStar	GM23C4000	
μPD23C64	UMC	UM23C64	
μPD23C8000	OKI	MSM538002B	
	Samsung	KM23C8100	
	Sharp	LH5380	
	Toshiba	TC538200	
μPD23C8001	OKI	MSM538001B	
	Sharp	LH5381	
μPD231000	Panasonic	MN231001	
μPD23128	Panasonic	MN23128	
μPD23256	OKI	MSM38256	
	Panasonic	MN23257	
μPD2364	OKI	MSM3864	
	Panasonic	MN2364	
μPD27C1000	AMD	AM27C100	
	TI	TMS27C010A	
		TMS27C210A	
		TMS27PC010A	
		TMS27PC210A	
	Toshiba	TC571001	
μPD27C1001	AMD	AM27C010	
	OKI	MSM271000	
	Toshiba	TC571000	
μPD27C1024	AMD	AM27C1024	
	Krueger	27C210	
	OKI	MSM27C1024	
		MSM271024	
	Toshiba	TC57H1024	
		TC571024	
	Waferscale	WS27C210	
μPD27C1024-20	Philips	27C210-20	
μPD27C1024D-20	Philips	27C210FA	
μPD27C1024K-20	Philips	27C210A	
μPD27C2001	AMD	AM27C020	
μPD27C256	AMD	AM27C256	
	Krueger	27C256-150	
			(Continued)
μPD27C256	Krueger		(Cont'd)
		27C256-200	
		27C256-250	
	OKI	MSM27C256	
	SEEQ	27C256	
	Toshiba	TC54256	
	Waferscale	WS57C256	
μPD27C256A	Toshiba	TC57256	
μPD27C4001	Toshiba	TC574000	
μPD27C4096	Toshiba	TC574096	
μPD27C512	AMD	AM27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC27512	
		TC57512	
	Waferscale	WS27C512	
μPD27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
μPD27HC65	Cypress	CY7C263	
		CY7C264	
μPD27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	OKI	MSM27128	
	SEEQ	27128	
	TI	TMS27C128	
		TMS27PC128	
μPD27256	OKI	MSM27256	
	TI	TMS27C256	
		TMS27PC256	
μPD2764	Catalyst Semi	CAT27128	
		CAT2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	OKI	MSM2764	
	SEEQ	2764	
μPD28C04	ATMEL	AT28C04	
	Microchip	28C04	
	SEEQ	2804	
	Xicor	X24C04	
μPD28C256	ATMEL	AT28C256	
	Catalyst Semi	CAT28C256	
	Hitachi	HN58C256	
	Microchip	28CP256	
		28C256	
	Samsung	KM28C256	
	SEEQ	28C256	
	Toshiba	TC58257	
	Xicor	X28C256	
μPD28C64	AMD	AM2864	
		AM9864	
	ATMEL	AT28C64	
	Catalyst Semi	CAT28C64	
	EXEL	XLS2864	
		XL28C64	
	Fujitsu	MBM28C64	
	Hitachi	HN58C65	
		HN58C66	
		HN58064	
	Hyundai	HY62C64	
	IDT	IDT7M7864	
		IDT78C64	
	Intel	2864	
	Microchip	28C64	
	Mitsubishi	M5M28C64	
	National	NMC98C64	
	OKI	MSM28C64	
	Samsung	KM28C64	
	SEEQ	28C64	
	Xicor	X28C64	
♦ μPD2915	Lansdale	AL2915	
μPD4016	AMD	AM9122	
	Krueger	**2128-100**	**(3663)**
		2128-120	**(3663)**
μPD411000	Panasonic	MN411000	
μPD41256	Fujitsu	MB81256	
	GoldStar	GM71C256A	
		GM71256	
	Hitachi	HM50256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
			(Continued)
μPD41256	**Krueger**		**(Cont'd)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mitsubishi	M5M4256	
	Mosel-Vitelic	V53C256	
	OKI	MSM41256A	
	Panasonic	MN41256	
	Samsung	KM41C256	
	Siemens	HYB41256	
	TI	TMS4256	
	Toshiba	TMM41256	
μPD41257	OKI	MSM41257	
		MSM41257A	
	Panasonic	MN41257	
μPD41264	GoldStar	GM53C261	
		GM53C461	
	Krueger	4461-100	
		4461-120	
		4461-150	
	Mosel-Vitelic	V53C261	
	Panasonic	MN47464	
♦ μPD4134	Rochester	64C16	
μPD41416	Krueger	41416-100	
		41416-120	
		41416-150	
μPD41464	Fujitsu	MB81464	
	GoldStar	GM71C464	
		GM71C464A	
	Hitachi	HM50464	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mitsubishi	M5M4464	
	Mosel-Vitelic	V53C464	
	Panasonic	MN41464	
	Samsung	KM41C464	
	TI	TMS4464	
	Toshiba	TMM41464	
♦ μPD41464	Rochester	4464	
μPD41464C	OKI	MSM41464	
μPD416	Krueger	4116-120	
		4116-150	
		4116-200	
♦ μPD416	Rochester	4116	
μPD4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
μPD4164A	OKI	MSM3764A	
μPD421000	Fujitsu	MB81C1000	
	GoldStar	GM71C1000	
	Hitachi	HM511000	
	Hyundai	HY531000	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C1000	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
		MCM511000A	
	OKI	MSM511000A	
		MSM511000B	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Toshiba	TC511000	
μPD421000C	Toshiba	TC511000B	
μPD421001	Fujitsu	MB81C1001	
	Hitachi	HM511001	
	Mitsubishi	M5M4C1001	
	Motorola	MCM511001	
		MCM511001A	
	OKI	MSM511001A	
		MSM511001B	
	Samsung	KM41C1001	
	TI	TMS4C1025	
	Toshiba	TC511001	
μPD421001C	Toshiba	TC511001B	
μPD421002	Fujitsu	MB81C1002	
	Hitachi	HM511002	
	MicronSemi	MT4C1026	
	Mitsubishi	M5M4C1002	
	Motorola	MCM511002	
		MCM511002A	
	OKI	MSM511002A	
		MSM511002B	
	Panasonic	MN41C1002	
	Samsung	KM41C1002	
	TI	TMS4C1027	
	Toshiba	TC511002	
			(Continued)
μPD421002C	Toshiba	TC511002	
μPD42101	Motorola	MCM54101A	
μPD42102	Motorola	MCM54102A	
μPD42160410	MicronSemi	MT4C4M4X1	
μPD42170	Toshiba	TC514170B	
μPD42264	Samsung	KM424C64	
μPD42273	Fujitsu	MB81C4251	
	Hitachi	HM534251	
	MicronSemi	MT42C4256	
	Mitsubishi	M5M442256	
	TI	TMS44C251	
	Toshiba	TC524256	
μPD42274	Fujitsu	MB81C4253	
	Hitachi	HM534253	
	MicronSemi	MT42C4256	
	Mitsubishi	M5M442256	
	OKI	MSM514252	
	Samsung	KM424C257	
	TI	TMS44C250	
		TMS44C251	
	Toshiba	TC524256	
		TC524258	
μPD42275	MicronSemi	MT42C8128	
	Mitsubishi	M5M482128	
	Mosel-Vitelic	V52C8128	
	TI	TMS48C121	
	Toshiba	TC524128	
μPD42400	GoldStar	GM71C4400A	
	Motorola	MCM54400A	
	Samsung	KM44C1000	
μPD42402	Motorola	MCM54402A	
μPD424100	Fujitsu	MB814100	
	GoldStar	GM71C4100A	
	Hitachi	HM514100	
	Hyundai	HY514100	
	MicronSemi	MT4C1004	
	Mitsubishi	M5M44100	
	Mosaic Semi	MDM14000	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
		MCM54100A	
	NEC	μPD424100	
	OKI	MSM514100	
		MSM514100A	
	Panasonic	MN41C4000	
	Samsung	KM41C4000	
	Siemens	HYB514100	
	TI	TMS44100	
	Toshiba	TC514100	
μPD424101	Mitsubishi	M5M44101	
	Motorola	MCM54101	
	OKI	MSM514101A	
	Panasonic	MN41C4001	
	Samsung	KM41C4001	
	TI	TMS44101	
	Toshiba	TC514101	
μPD424102	MicronSemi	MT4C1006	
	Mitsubishi	M5M44102	
	Motorola	MCM54102	
	OKI	MSM514102A	
	Panasonic	MN41C4002	
	Samsung	KM41C4002	
	Toshiba	TC514102	
μPD4241610	MicronSemi	MT4C16256	
		MT4C16257	
μPD424170	MicronSemi	MT4C16260	
μPD424256	Fujitsu	MB81C4256	
	GoldStar	GM71C4256	
		GM71C4256A	
		GM71C7256	
	Hitachi	HM514256	
	Hyundai	HY534256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M4C256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	Motorola	MCM514256	
		MCM514256A	
	OKI	MSM514256A	
		MSM514256B	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	TI	TMS44C256	
	Toshiba	TC514256	
μPD424256C	Toshiba	TC514256B	
μPD424258	MicronSemi	MT4C4258	
	Motorola	MCM514258	
		MCM514258A	
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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
µPD424258			(Cont'd)
	OKI	MSM514258	
		MSM514258A	
	Panasonic	MN41C4258	
	Samsung	KM44C258	
µPD424258C	Toshiba	TC514258B	
µPD424260	GoldStar	GM71C4260	
	MicronSemi	MT4C16256	
		MT4C16257	
	Toshiba	TC514260B	
µPD424266	OKI	MSM514266B	
µPD424266C	Toshiba	TC514266B	
µPD424400	Fujitsu	MB814400	
	Hitachi	HM514400	
	Hyundai	HY514400	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M44400	
	Mosaic Semi	MDM41000	
	Mosel-Vitelic	V53C404	
	Motorola	MCM514400	
		MCM54400	
	OKI	MSM514400	
		MSM514400A	
	Panasonic	MN41C41000	
	Samsung	KM44C1000	
	Siemens	HYB514400	
	TI	TMS44400	
		TMS44410	
		TMS48C121	
	Toshiba	TC514400	
µPD424402	MicronSemi	MT4C4003	
	Mitsubishi	M5M44402	
	Motorola	MCM54402	
	OKI	MSM514402A	
	Panasonic	MN41C41002	
	Samsung	KM44C1002	
	Toshiba	TC514402	
µPD424410	Hitachi	HM514410	
	Motorola	MCM54410	
	Toshiba	TC514410	
µPD42458	Toshiba	TC514258	
µPD424800	GoldStar	GM71C4800	
	MicronSemi	MT4C8512	
µPD4254100	MicronSemi	MT4C1004	
µPD4254260	MicronSemi	MT4C16257	
µPD4254400	MicronSemi	MT4LC4001	
µPD4254800	MicronSemi	MT4C8512	
µPD428128	Samsung	KM658128	
	Toshiba	TC518129	
µPD42832	Krueger	65256-100	
		65256-120	
	Toshiba	TC51832	
µPD429	Cypress	CY7C292	
µPD431000	Cypress	CY7C108	
	GoldStar	GM76C8128L	
	Hitachi	HM628128	
		HM658128	
	Hyundai	HY628100	
	Mitsubishi	M5M51008	
	TI	TMS62828	
	Toshiba	TC518128	
µPD431000A	OKI	MSM521001	
µPD431001	Fujitsu	MB82B001	
	Intel	MT5C1001	
	MicronSemi	MT5C1001	
	Mitsubishi	M5M51001	
	Motorola	MCM6227A	
	Samsung	KM611001	
µPD431004	Fujitsu	MB82B005	
	Hitachi	HM624256	
	Intel	MT5C1005	
	MicronSemi	MT5C1005	
	Mitsubishi	M5M51004	
	Motorola	MCM6229A	
	Samsung	KM641001	
	Sharp	LH521002	
	TI	TMS62456	
µPD4311	Cypress	CY7C167	
		CY7C167A	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	Sharp	LH5167	
µPD4314	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
			(Continued)
µPD4314			(Cont'd)
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
µPD43251	MicronSemi	MT5C2561	
	Motorola	MCM6207	
µPD43253	Toshiba	TC55B465	
µPD43254	Cypress	CY7C194	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Sharp	LH52252	
	Toshiba	TC55B464	
		TC55464	
µPD43256	AMD	AM99C328	
	Cypress	CY7C198	
	Fujitsu	MB84256	
	Hitachi	HM62256	
	IDT	IDT71256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	Lattice	SR256K8	
	LogicDev	L7C199	
	Mitsubishi	M5M5256	
	OKI	MSM51257	
	Panasonic	MN44256	
	Samsung	KM62256	
	SGS-Thomson		
		IMS1830	
		MK48Z30	
	Sharp	LH52250AL	
	Toshiba	TC55256	
		TC55257	
	UMC	UM62256	
µPD43256A	GoldStar	GM76C256	
	Hyundai	HY62256A	
µPD43257	Sharp	LH52250AL	
µPD43258	Krueger	62256-025	
		62256-030	
		62256-035	
	Motorola	MCM6206	
µPD43528	MicronSemi	MT5C2568	
µPD4361	Cypress	CY7C187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Toshiba	TC5561	
		TC5562	
µPD4362	Cypress	CY7C164	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	OKI	MSM5188	
	Toshiba	TC55416	
µPD4363	Cypress	CY7C166	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mosel-Vitelic	MS6267A	
	Toshiba	TC55B417	
		TC55417	
µPD4364	GoldStar	GM76C88	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	LogicDev	L7C185	
	Mosel-Vitelic	MS6264	
	OKI	MSM5165	
	Panasonic	MN4464	
	Samsung	KM6264	
	Toshiba	TC5563	
	UMC	UM6264	
µPD4364-L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
µPD4364L	GoldStar	GM76C88L	
◆ µPD4369	Rochester	69CE72	
µPD443	Harris	HM6508	
µPD444	Harris	HM6514	
µPD4444	AMD	AM91L14	
µPD446	AMD	AM9122	
	GoldStar	GM76C28	
	Harris	HM65162	
	Hyundai	HY6116A	
	Krueger	**6116-120**	**(3663)**
			(Continued)
µPD446	**Krueger**		**(Cont'd)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	Mosel-Vitelic	MS6516	
	Panasonic	MN4416	
	UMC	UM6116	
µPD4464	Harris	HM65642	
	Hyundai	HY6264A	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	LogicDev	L7C185	
	Mosel-Vitelic	MS6264	
	Sharp	LH5168	
µPD449	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
µPD46251	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Motorola	MCM6207	
µPD4741	Harris	HA4741	
µPD482234	MicronSemi	MT42C8257	
µPD482235	MicronSemi	MT42C8256	
µPD524256	Mosel-Vitelic	V52C4258	
µPD524273	Mosel-Vitelic	V52C4256	
µPD5555	Harris	ICM7555	
µPD5556	Harris	ICM7556	
µPD6514	AMD	AM91L14	
µPD6950	Motorola	MC10319	
µPD6951	GEC Plessey	SP9756	
µPD70008	Zilog	Z84C00	
µPD7003	GEC Plessey	ZN439	
µPD7004	GEC Plessey	ZN437	
µPD70108	Harris	80C88	
	OKI	MSM80C88A	
µPD70116	Harris	80C86	
	OKI	MSM80C86A	
µPD71051	OKI	MSM82C51	
µPD71054	Harris	82C54	
	OKI	M5M82C54	
µPD71055	Harris	82C55	
	OKI	MSM82C55	
µPD71059	Harris	82C59	
	OKI	MSM82C59	
µPD71082	Harris	82C82	
µPD71083	Harris	82C83	
µPD71084	Harris	82C84	
	OKI	MSM82C84	
µPD71086	Harris	82C86	
µPD71087	Harris	82C87	
µPD71088	Harris	82C88	
	OKI	MSM82C88	
µPD7201A	Siemens	SAB7201A	
µPD7220	SMC	CRT7220	
µPD75108	Motorola	MC75108	
µPD75208	Motorola	MC75108	
µPD765	Krueger	765	
	SMC	FDC765	
	UMC	UM8272	
µPD78K	Hitachi	HD6301	
		HD647180	
µPD780	Zilog	Z08400	
µPD8039	Krueger	8039	
µPD8080A	Krueger	8080A	
µPD8085A	Krueger	8085A	
	Newbridge	CA80C85B	
	OKI	MSM80C85A	
µPD8086	Krueger	8086	
	OKI	MSM80C86A	
µPD8088	Krueger	8088	
	OKI	MSM80C88A	
	Siemens	SAB8088	
µPD81555	OKI	MSM81C55	
µPD8156H	OKI	MSM81C56	
µPD8212	OKI	MSM82C12	
µPD8237	Krueger	8237	
µPD8237A	Newbridge	CA82C37A	
	Siemens	SAB8237A	
µPD8251	Krueger	8251	
	SMC	COM8251	
µPD8251A	OKI	MSM82C51A	
µPD8253	Krueger	8253	
	OKI	MSM82C53	
µPD8255	Krueger	8255	
µPD8255A	Newbridge	CA82C55A	
	OKI	MSM82C55A	
µPD8257	Krueger	8257	
	OKI	MSM82C37	
µPD8259A	Krueger	8259	
	Newbridge	CA82C59A	
	OKI	MSM82C59A	
	Siemens	SAB8259A	
			(Continued)
µPD8284A	OKI	MSM82C84A	
µPD8288	OKI	MSM82C88	
◆ µPD8406	Lansdale	HL7642	
µPD8755A	OKI	MSM87C55A	
D27C1001	Krueger	27C010	
D2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
D780	Krueger	Z80CPU	
LM317	Samsung	LM317	
	Unitrode	UC317	
LM350	Unitrode	UC350	
MC122000A36	GoldStar	GMM7362000SG	
MC157	Toshiba	THM82500	
MC41256A8	Fujitsu	MB85225	
	Mitsubishi	MH25608	
	Mosel-Vitelic	V256J8	
	Motorola	MCM84256	
	OKI	MSC2304KS8	
	Peps	PEP4256EL8	
	Samsung	KMM58256	
MC41256A9	Fujitsu	MB85227	
	Hitachi	HB561003	
	Mitsubishi	MH25609	
	Mosel-Vitelic	V256J9	
	Motorola	MCM94256	
	OKI	MSC2304KS9	
	Peps	PEP4256EL9	
	Samsung	KMM59256	
	Toshiba	THM92500	
MC42100A36BJ80	Peps	PEP4MX36	
MC42100A8	Toshiba	THM81000	
MC42100A8B	OKI	MSC23408	
MC421000A32	GoldStar	GMM7321000SG	
MC421000A36	Hitachi	HB56D136	
	MicronSemi	MT12D136	
	Motorola	MCM36100	
	OKI	MSC23136	
	TI	TM124MBK36A	
		TM124MBK36B	
MC421000A36B	GoldStar	GMM7361000SG	
MC421000A40	Motorola	MCM40100	
MC421000A8	Fujitsu	MB85230	
	GoldStar	GMM781000S	
	Hitachi	HB56A18	
	MicronSemi	MT8C8024	
		MT8D18	
	Mitsubishi	MH1M08	
	Motorola	MCM81000	
	OKI	MSC2311K58	
		MSC231148	
	Peps	PEP1MX8	
	Samsung	KMM581000	
	TI	TM024GAD8	
		TM124GU8A	
	Toshiba	THM81000	
MC421000A8B	OKI	MSC2313A	
MC421000A9	Fujitsu	MB85235	
	Hitachi	HB56A19	
		HB58A19	
	MicronSemi	MT8C9024	
		MT9D19	
	Mitsubishi	MH1M09	
	Motorola	MCM91000	
	OKI	MSC2310KS9	
		MSC2310Y59	
	Peps	PEP1MX9	
	Samsung	KMM591000	
	Siemens	HYM910005	
	TI	TM024GAD9	
		TM124EAD9B	
		TM124EAD9C	
	Toshiba	THM91000	
MC421000A9A	GoldStar	GMM791000S	
MC421000A9B	OKI	MSC23109	
		MSC2312A	
MC421000B8	Fujitsu	MB85231	
MC421000B9	Motorola	MCM91001	
MC421000C8	Hitachi	HB56C18	
	Motorola	MCM81002	
MC421000C9	Fujitsu	MB85327	
	Motorola	MCM91002	
MC4210000B8	Motorola	MCM81001	
MC422000A	OKI	MSC23236	

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

NEC Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC422000A32			
	GoldStar	GMM322000SG	
MC422000A36			
	Hitachi	HB56D236	
	Motorola	MCM36200	
MC422000A40			
	Motorola	MCM40200	
MC42256A36B			
	GoldStar	GMM736256SG	
MC42400A9A	GoldStar	GMM794000S	
MC424100A8	Hitachi	HB56A42	
	MicronSemi	**MT8D48**	
	Motorola	**MCM84000**	
MC424100A9	Hitachi	HB56A49	
	MicronSemi	MT9D49	
	Motorola	MCM94000	
	Peps	PEP4MX9	
	Siemens	HYM940005	
	TI	TM4100EBD9	
MC424100A9B			
	OKI	MSC23409	
MC4241000A8			
	Peps	PEP4MX8	
MC424256	Hitachi	HB56D25636	
MC424256A36			
	Mitsubishi	MH25636	
	Motorola	MCM36256	
	OKI	MSC2320A	
	TI	TM256BK36B	
	Toshiba	THM362500	
		THM91000	
MC424512A36			
	Hitachi	HB56D51236	
	Mitsubishi	MH51236	
	Motorola	MCM36512	
	OKI	MSC2321A	
	TI	TM512LBK36B	
		TM512LBK36C	
	Toshiba	THM365120	
MC424512A40			
	Motorola	MCM40512	
MC42512A36B			
	GoldStar	GMM736512SG	
M27C256	Waferscale	WS27C256	
NDL3200	Hitachi	HL6711	
NDL3210	Hitachi	HL6712	
NMC27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
PS2401-1	Toshiba	TLP621	
PS2403-1	Toshiba	TLP624	
PS2501-1	Toshiba	TLP621	
PS2501-2	Toshiba	TLP621-2	
PS2501-3	Toshiba	TLP621-3	
PS2501-4	Toshiba	TLP621-4	
PS2701-1	Toshiba	TLP121	
PS5016B	Toshiba	TLP550	
R3000A	Siemens	SABR3000A	
R3010A	Siemens	SABR3010A	
R4000	Siemens	SABR4000	
UPD43256	Mosel-Vitelic	MS62257	
UPD43256A	Mosel-Vitelic	MS62256	
27HC65	Waferscale	WS57C49	
82C37	Samsung	KS82C37	
82C54	Samsung	KS82C54	
82C55	Samsung	KS82C55	
82C59	Samsung	KS82C59	
82C84	Samsung	KS82C84	
82C88	Samsung	KS82C88	

Newbridge Microsystems

Manufacturer Device	Replacement Source	Device	IC Master Page
CA20C03	Western	WD20C03A	
♦ CA20C03A	Western	WD20C03A	
CA53C80	LogicDev	L53C80	
♦ CA53C80	AMD	AM5380	
	NCR	NCR53C80	
	Samsung	KS53C80	
	Zilog	Z0538010	
CA80C85B	AMD	**AM8085A**	
	Intel	P8085A	
	Mitsubishi	M5M80C85A	
	NEC	μPD8085A	
	OKI	MSM80C85A	
	Toshiba	TMP8085A	
CA82C37A	AMD	P8237A	
	Harris	CP82C37A	
		CS82C37A	
	Intel	P8237A	
	Mitsubishi	M5M82C37A	
	NEC	μPD8237A	
	OKI	MSM82C37A	
	Samsung	KS82C37A	
	Toshiba	TMP82C37A	
		TMP8237A	
	UMC	UM8237A	
♦ CA82C50A	Harris	CP82C50A	
		CS82C50A	
♦ CA82C50A	Samsung	KS82C50	
	UMC	UM8250A	
CA82C52	Harris	CP82C50A	
		CS82C52	
	Samsung	KS82C52	
CA82C54	AMD	N82C54	
		P82C54	
	Harris	CP82C54	
		CS82C54	
	Intel	N82C54	
		P82C54	
		P8254	
	Mitsubishi	M5M82C54	
	OKI	MSM82C54	
	Samsung	KS82C54	
	UMC	UM8254	
CA82C55A	Harris	CP82C55A	
		CS82C55A	
	Intel	N82C55A	
	Mitsubishi	M5L8255A	
		M5M82C55A	
	NEC	μPD8255A	
	OKI	MSM82C55A	
	Samsung	KS82C55A	
	Toshiba	TMP82C55A	
CA82C59A	AMD	N82C59A	
		N8259A	
		P8259	
	Harris	CP82C59A	
		CS82C59A	
	Intel	P82C59A	
		P8259A	
	Mitsubishi	M5L8259A	
		M5M82C59A	
	NEC	μPD8259A	
	OKI	MSM82C59A	
	Samsung	KS82C59A	
	Toshiba	TMP82C59A	
		TMP8259A	
	UMC	UM8259A	
CA82C84A	AMD	P8284A	
	Harris	CP82C84A	
		CS82C84A	
	Intel	P82C84A	
		P8284A	
	Mitsubishi	M5L8284A	
	OKI	MSM82C84A	
	Samsung	KS82C84A	
CA82C88	AMD	**P8288**	
	Harris	CP82C88	
		CS82C88	
	Intel	P82C88	
	OKI	MSM82C88	
	Samsung	KS82C88	
	UMC	UM82C88	
♦ CA85C30	Samsung	KS85C30	
	Zilog	Z85C3008	
		Z85C3010	
CA95C18	AMD	AM95168	
	VLSI Tech	VM009A-80	
CA95C68	AMD	AM9568	
	VLSI Tech	VM009A-86	

NJR

Manufacturer Device	Replacement Source	Device	IC Master Page
NJMOP07	NEC	μPC354	
	TI	OP07	
NJM022	Sharp	IR9022	
	TI	TL022	
NJM062	NEC	μPC4062	
		μPC832	
	TI	TL062	
	Toshiba	TA75062	
NJM064	National	LF347	
	NEC	μPC4064	
		μPC834	
	TI	TL064	
	Toshiba	TA75064	
NJM072	Mitsubishi	M5221	
	NEC	μPC4072	
		μPC822	
	TI	TL072	
	Toshiba	TA75072	
NJM074	NEC	μPC4074	
		μPC822	
	TI	TL074	
	Toshiba	TA75074	
NJM082	Hitachi	HA17082	
	Mitsubishi	M5221	
	NEC	μPC4082	
		μPC803	
	Panasonic	AN1082	
		AN6581	
	ROHM	BA082	
	Sanyo	LA6082	
	TI	TL082	
NJM084	Hitachi	HA17084	
	NEC	μPC4084	
		μPC804	
	TI	TL084	
NJM13600	ROHM	BA13600	
	TI	LM13600	
NJM13700	TI	LM13700	
NJM1458	Hitachi	HA17458	
	National	LM1458	
	NEC	μPC1458	
		μPC251	
	Panasonic	AN1458	
	Samsung	MC1458	
	Sharp	IR91458	
	TI	MC1458	
	Toshiba	TA75458	
NJM2043	Mitsubishi	M5210	
		M5220	
	Panasonic	AN6557	
		AN6558	
	Sanyo	LA6462	
NJM2058	Mitsubishi	M5228	
	NEC	μPC458	
		μPC4741	
	Toshiba	TA7508	
NJM2059	Panasonic	AN6554	
NJM2068	National	LM833	
	NEC	μPC4570	
NJM2082	Mitsubishi	M5238	
NJM2900	National	LM2900	
	TI	LM2900	
NJM2901	Hitachi	HA17339	
		HA17901	
	Mitsubishi	M5234	
	National	LM339	
	NEC	μPC177	
		μPC339	
	Panasonic	AN1339	
	Sanyo	LA6339	
	TI	LM2901	
		LM339	
	Toshiba	TA75339	
NJM2902	Hitachi	HA17902	
	Mitsubishi	M5224	
	National	LM2902	
	NEC	μPC451	
	Panasonic	AN1324	
		AN6564	
	ROHM	BA6924	
	Sanyo	LA6324	
	TI	LM2902	
	Toshiba	TA75902	
NJM2903	Hitachi	HA17393	
		HA17903	
	Mitsubishi	M5233	
	National	LM393	
	NEC	μPC277	
		μPC393	
	Panasonic	AN1393	
	Sanyo	LA6393	
	TI	LM2903	
		LM393	
	Toshiba	TA75393	
NJM2904	Hitachi	HA17904	
	Mitsubishi	M5223	
	National	LM2904	
		LM358	
	NEC	μPC1251	
		μPC358	
	Panasonic	AN1358	
		AN6561	
	ROHM	BA10358	
		BA728	
	Sanyo	LA6538	
	TI	LM2904	
		LM358	
	Toshiba	TA75358	
NJM311	National	LM311	
	NEC	μPC271	
		μPC311	
	Panasonic	AN1311	
		AN311	
	TI	LM311	
NJM318	National	LM318	
	NEC	μPC159	
		μPC318	
	TI	LM318	
NJM319	National	LM319	
	NEC	μPC272	
		μPC319	
	Panasonic	AN1319	
NJM324	Mitsubishi	M5224	
	National	LM324	
	NEC	μPC324	
		μPC451	
	Panasonic	AN1324	
		AN6564	
	ROHM	BA10324	
		BA6924	
	Sanyo	LA6324	
	TI	LM324	
	Toshiba	TA75324	
NJM3403	NEC	μPC3403	
		μPC452	
	TI	MC3403	
	Toshiba	TA75403	
NJM3415	Panasonic	AN6567	
		AN6568	
NJM353	National	LF353	
NJM360	National	LM360	
NJM3900	National	LM3900	
	TI	LM3900	
NJM4250	National	LM4250	
	NEC	μPC4250	
		μPC802	
	Panasonic	AN4250	
	Toshiba	TA7540	
NJM4556	Mitsubishi	M5216	
NJM4558	Mitsubishi	M5218	
	NEC	μPC258	
		μPC4558	
	Panasonic	AN4558	
		AN6551	
		AN6552	
	ROHM	BA4558	
		BA71	
	Samsung	MC4558	
	Sanyo	LA6458	
	Sharp	IR94558	
	TI	RC4558	
	Toshiba	TA75558	
NJM4559	NEC	μPC4559	
	Panasonic	AN6553	
		AN6555	
		AN6556	
	Sharp	IR94559	
	Toshiba	TA75559	
NJM4560	Mitsubishi	M5218	
		M5260	
	NEC	μPC259	
		μPC4560	
	ROHM	BA15218	
		BA4560	
NJM4562	Mitsubishi	M5209	
		M5219	
	NEC	μPC4556	
NJM4565	Mitsubishi	M5218	
		M5260	
	NEC	μPC259	
		μPC4560	
NJM5532	ROHM	BA15532	
	TI	NE5532	
NJM5534	ROHM	BA15534	
	TI	NE5534	
NJM741	Hitachi	HA17741	
	National	LM741	
	NEC	μPC151	
		μPC741	
	Panasonic	AN1741	
		AN6570	
	Sharp	IR3741	
	TI	μA741	
	Toshiba	TA7504	
NJM78L02	TI	μA78L02	
NJM78L05	TI	μA78L05	
NJM78L06	TI	μA78L06	
NJM78L08	TI	μA78L08	
NJM78L09	TI	μA78L09	
NJM78L12	TI	μA78L12	
NJM78L15	TI	μA78L15	
NJM78M05	TI	μA78M05	
NJM78M06	TI	μA78M06	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

JR (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
NJM78M08	TI	µA78M08	
NJM78M12	TI	µA78M12	
NJM78M15	TI	µA78M15	
NJM78M20	TI	µA78M20	
NJM78M24	TI	µA78M24	
NJM7805	TI	µA7805	
NJM7806	TI	µA7806	
NJM7808	TI	µA7808	
NJM7812	TI	µA7812	
NJM7815	TI	µA7815	
NJM7818	TI	µA7818	
NJM7824	TI	µA7824	
NJM79L05	TI	MC79L05	
NJM79L12	TI	MC79L12	
NJM79L15	TI	MC79L15	
NJM79M05	TI	µA79M05	
NJM79M06	TI	µA79M06	
NJM79M08	TI	µA79M08	
NJM79M12	TI	µA79M12	
NJM79M15	TI	µA79M15	
NJM7905	TI	µA7905	
NJM7906	TI	µA7906	
NJM7908	TI	µA7908	
NJM7912	TI	µA7912	
NJM7915	TI	µA7915	
NJM7918	TI	µA7918	
NJM7924	TI	µA7924	
NJU201A	Harris	DG201	
		HI201	
	National	LF11201	
	Siliconix	DG201A	
NJU211	Harris	DG211	
	Siliconix	DG211	
NJU3711	ROHM	BU2114	
NJU3712	ROHM	BU2114	
NJU3713	Mitsubishi	M50253	
	OKI	MSM58371	
	ROHM	BU2029	
		BU2040	
		BU2042	
NJU3714	Mitsubishi	M50253	
	OKI	MSM58371	
	ROHM	BU2029	
		BU2040	
		BU2042	
NJU3715	Mitsubishi	M50255	
	OKI	MSM5937	
		MSM59371	
NJU3716	Mitsubishi	M50255	
	OKI	MSM5937	
		MSM59371	
NJU6407B	Hitachi	HD44100	
	OKI	MSM5259	
		MSM5839	
NJU6408	Hitachi	HD44780	
		HD66780	
	OKI	MSM6222B	
	Seiko Instr	SED1210	
		SED1278	
NJU6416	Hitachi	HD66100	
	OKI	MSM5279	
	Seiko Instr	SED1521	
		SED1681	
NJU6417B	Hitachi	HD44102	
	Seiko Instr	SED1181	
NJU7001	Harris	ICL76L1	
	SGS-Thomson	TS27L1	
	TI	TLC27L1	
NJU7002	Harris	ICL76L2	
	SGS-Thomson	TS27L2	
	TI	TLC27L2	
NJU7004	Harris	ICL76L4	
	SGS-Thomson	TS27L3	
	TI	TLC27L4	
NJU7021	Harris	ICL76M1	
	SGS-Thomson	TS27M1	
	TI	TLC27M1	
NJU7022	Harris	ICL76M2	
	SGS-Thomson	TS27M2	
	TI	TLC27M2	
NJU7024	Harris	ICL76M4	
	SGS-Thomson	TS27M3	
	TI	TLC27M4	
			(Continued)
NJU7031	Harris	ICL761	
	SGS-Thomson	TS271	
	TI	TLC271	
NJU7032	Harris	ICL762	
	SGS-Thomson	TS272	
	TI	TLC272	
NJU7034	Harris	ICL764	
	SGS-Thomson	TS273	
	TI	TLC274	
NJU7102A	SGS-Thomson	TS3702	
	TI	TLC3702	
NJU7104A	SGS-Thomson	TS3704	
	TI	TLC3704	
NJU7201	Seiko Instr	S81215	
		S81225	
		S81230	
		S81235	
		S81240	
NJU7211	Seiko Instr	S80250	
NJU7311	Toshiba	TC9162	
NJU7312	Toshiba	TC9163	
NJU7313	Toshiba	TC9164	
♦ NJU74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
♦ NJU74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
♦ NJU74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
♦ NJU74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
♦ NJU74HC05	GoldStar	GD74HC05	
	National	MM74HC05	
	TI	SN74HC05	
	Toshiba	**TC74HC05A**	**(3836)**
♦ NJU74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
♦ NJU74HC09	GoldStar	GD74HC09	
	Mitsubishi	M74HC09	
	TI	SN74HC09	
	Toshiba	**TC74HC09A**	**(3836)**
♦ NJU74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
♦ NJU74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
			(Continued)
♦ NJU74HC109			(Cont'd)
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
♦ NJU74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
♦ NJU74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
♦ NJU74HC113	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	National	MM74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	**(3836)**
♦ NJU74HC114	Mitsubishi	M74HC114	
	Rochester	74HC114	
	TI	SN74HC114	
♦ NJU74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123	
		MM74HC123A	
♦ NJU74HC123	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	
♦ NJU74HC123	Toshiba	TC74HC123	
		TC74HC123A	
♦ NJU74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
♦ NJU74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
♦ NJU74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
♦ NJU74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
♦ NJU74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
			(Continued)
♦ NJU74HC14			(Cont'd)
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
♦ NJU74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
♦ NJU74HC151	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
♦ NJU74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
♦ NJU74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
♦ NJU74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
♦ NJU74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
♦ NJU74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
♦ NJU74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
♦ NJU74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	

(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

NJR (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ NJU74HC165 (Cont'd)	**Toshiba**	**TC74HC165A**	(3836)
	Universal	US74HC165	
♦ NJU74HC166	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	(3836)
♦ NJU74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	(3836)
	Universal	US74HC174	
♦ NJU74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	(3836)
	Universal	US74HC175	
♦ NJU74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	(3836)
	Universal	US74HC192	
♦ NJU74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	(3836)
	Universal	US74HC194	
♦ NJU74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	(3836)
	Universal	US74HC195	
♦ NJU74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	(3836)
	Universal	US74HC20	
♦ NJU74HC21	GoldStar	GD74HC21	
	Harris	CD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	(3836)
	Universal	US74HC21	
♦ NJU74HC237	Harris	CD74HC22106	
		CD74HC237	
♦ NJU74HC237	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ NJU74HC237 (Cont'd)	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	(3836)
♦ NJU74HC238	Harris	CD74HC238	
	National	MM74HC238	
	Philips	74HC238	
	SGS-Thomson	M74HC238	
	TI	SN74HC238	
	Toshiba	**TC74HC238A**	(3836)
♦ NJU74HC239	TI	SN74HC239	
♦ NJU74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
♦ NJU74HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	(3836)
♦ NJU74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
♦ NJU74HC241	TI	SN74HC241	
	Toshiba	**TC74HC241A**	(3836)
♦ NJU74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
♦ NJU74HC244	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	(3836)
♦ NJU74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
♦ NJU74HC245	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
♦ NJU74HC245	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	(3836)
♦ NJU74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	(3836)
♦ NJU74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	(3836)
♦ NJU74HC266	Mitsubishi	M74HC266	
		M74HC266A	
♦ NJU74HC266	National	MM74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	(3836)
♦ NJU74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ NJU74HC27 (Cont'd)	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	(3836)
♦ NJU74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
♦ NJU74HC273	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	(3836)
♦ NJU74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	(3836)
♦ NJU74HC352	SGS-Thomson	M74HC352	
	TI	SN74HC352	
	Toshiba	**TC74HC352A**	(3836)
♦ NJU74HC353	SGS-Thomson	M74HC353	
	TI	SN74HC353	
	Toshiba	**TC74HC353A**	(3836)
♦ NJU74HC36	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	(3836)
♦ NJU74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	(3836)
♦ NJU74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	(3836)
♦ NJU74HC375	SGS-Thomson	M74HC375	
	TI	SN74HC375	
	Toshiba	**TC74HC375A**	(3836)
♦ NJU74HC377	Harris	CD74HC377	
	Philips	74HC377	
	SGS-Thomson	M74HC377	
	TI	SN74HC377	
	Toshiba	**TC74HC377A**	(3836)
♦ NJU74HC378	TI	SN74HC378	
♦ NJU74HC379	TI	SN74HC379	
♦ NJU74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ NJU74HC390 (Cont'd)	TI	SN74HC390	
	Toshiba	**TC74HC390A**	(3836)
♦ NJU74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	(3836)
♦ NJU74HC4002	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	(3836)
♦ NJU74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
♦ NJU74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	(3836)
♦ NJU74HC4066	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
♦ NJU74HC4066	**Toshiba**	**TC74HC4066A**	(3836)
♦ NJU74HC4072	SGS-Thomson	M74HC4072	
	Toshiba	**TC74HC4072A**	(3836)
♦ NJU74HC490	TI	SN74HC490	
♦ NJU74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	(3836)
♦ NJU74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
♦ NJU74HC533	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
♦ NJU74HC533	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	(3836)
♦ NJU74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
♦ NJU74HC534	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

NJR (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ NJU74HC534			(Cont'd)
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
◆ NJU74HC58	GoldStar	GD74HC58	
	Motorola	MC74HC58	
	National	MM74HC58	
◆ NJU74HC620	National	MM74HC620	
	SGS-Thomson	M74HC620	
	TI	SN74HC620	
	Toshiba	**TC74HC620A**	**(3836)**
◆ NJU74HC623	National	MM74HC623	
	SGS-Thomson	M74HC623	
	TI	SN74HC623	
	Toshiba	**TC74HC623A**	**(3836)**
◆ NJU74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
◆ NJU74HC640	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
◆ NJU74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
◆ NJU74HC643	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
◆ NJU74HC645	Mitsubishi	M74HC645	
		M74HC645-1	
◆ NJU74HC645	TI	SN74HC645	
◆ NJU74HC7001	TI	SN74HC7001	
◆ NJU74HC7002	TI	SN74HC7002	
◆ NJU74HC7032	TI	SN74HC7032	
◆ NJU74HC7203	TI	SN74HC7076	
◆ NJU74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
◆ NJU74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
◆ NJU74HC85	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
◆ NJU74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
NJU7660	**Harris**	**ICL7660**	**(3638)**
	Seiko Instr	SC17660	
	Siliconix	SI7660	
NJU7662	**Harris**	**ICL7662**	**(3638)**
	Siliconix	SI7662	

NMB Technologies

Manufacturer Device	Replacement Source	Device	IC Master Page
AAA1M100	Krueger	511000-100	
		511000-70	
		511000-80	
	TI	TMS4C1027	
AAA1M104	Motorola	MCM514256	
		MCM514256A	
	TI	TMS44C256	
AAA1M200	Krueger	511000-100	
		511000-70	
		511000-80	
	TI	TMS4C1025	
AAA1M300	Hyundai	HY531000	
	Krueger	511000-100	
		511000-70	
		511000-80	
AAA1M304	Hyundai	HY534256	
	Krueger	514256-100	
		514256-70	
		514256-80	
AAA2800	Hyundai	HY53C256	
	Mosel-Vitelic	V53C258	
AAA2801	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	
AAA2804	Hyundai	HY53C464	
AAA4M100	Motorola	MCM54100	
		MCM54100A	
	TI	TMS44100	
AAA4M104	TI	TMS44400	
		TMS44410	
AAA4M200	Hyundai	HY514100	
MM1M100J8	Toshiba	THM81000	
MM1M100J9	Toshiba	THM91000	
MM2800J8	Mosel-Vitelic	V256J8	
MM2800J9	Mosel-Vitelic	V256J9	

(Continued)

OKI Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
MBL80186	Siemens	SAB80186	
MBL8088	Siemens	SAB8088	
MCM271000	TI	TMS27C010A	
		TMS27PC010A	
MSC2304	Hitachi	HM561003	
	Mitsubishi	MH25609	
MSC2304-8	Mosel-Vitelic	V256J8	
MSC2304-9	Mosel-Vitelic	V256J9	
MSC2304KS8	NEC	MC41256A8	
MSC2304KS9	NEC	MC41256A9	
MSC2304S8	Motorola	MCM84256	
MSC2304S9	Motorola	MCM94256	
MSC2310KS9	NEC	MC421000A9	
MSC2310Y59	NEC	MC421000A9	
MSC23109	Hitachi	HB56A19B	
	Mitsubishi	MH1M09A	
	NEC	MC421000A9B	
	Samsung	KMM591000A	
	Toshiba	THM91000A	
MSC2311K58	NEC	MC421000A8	
MSC231148	NEC	MC421000A8	
MSC2312	TI	TM124EAD9B	
		TM124EAD9C	
	Toshiba	THM91000	
MSC2312A	Hitachi	HB56A19B	
	MicronSemi	MT9D19	
	Mitsubishi	MH1M09A	
	NEC	MC421000A9B	
	Samsung	KMM591000A	
	Toshiba	THM91000AS	
MSC2312S9	Motorola	MCM91000	
MSC2313	Toshiba	THM81000	
MSC2313A	Hitachi	HB56A18B	
	Mitsubishi	MH1M08A	
	NEC	MC421000A8B	
	Samsung	KMM581000A	
	TI	TM024GAD8	
		TM124GU8A	
	Toshiba	THM81000A	
MSC2313S8	Motorola	MCM81000	
MSC23132	Hitachi	HB56D132B	
	Mitsubishi	MH1M32B	
	Toshiba	THM321020	
MSC23136	Hitachi	HB56D136B	
	Mitsubishi	MH1M36B	
	NEC	MC421000A36	
	Samsung	KMM5361000	
	Toshiba	THM361020	
MSC23140	Hitachi	HB56D140	
	Toshiba	THM401020	
MSC2320	Toshiba	THM362500	
MSC2320A	Hitachi	HB56D25636B	
	Mitsubishi	MH25636A	
MSC2320A			(Cont'd)
	NEC	MC424256A36	
	Samsung	KMM5362568A	
	TI	TM256BK36B	
	Toshiba	THM362500A	
MSC2321	Toshiba	THM365120	
MSC2321A	Hitachi	HB56B51236B	
	Mitsubishi	MH51236A	
	NEC	MC424512A36	
	Samsung	KMM536512B	
	TI	TM512LBK36B	
		TM512LBK36C	
	Toshiba	THM365120A	
MSC23232	Hitachi	HB56D232B	
	Mitsubishi	MH2M32B	
	Toshiba	THM322020	
MSC23236	Hitachi	HB56D236B	
	Mitsubishi	MH2M36A	
	NEC	MC422000A	
	Samsung	KMM5362000	
	Toshiba	THM362020	
MSC23240	Hitachi	HB56D240	
	Toshiba	THM402020	
MSC2327	Toshiba	THM322500	
MSC2328	Toshiba	THM82500	
MSC2331	Toshiba	THM92500	
MSC2333	Toshiba	THM325120	
MSC2340	MicronSemi	MT9D49	
	TI	TM4100EBD9	
	Toshiba	THM94000	
MSC2340YS9	Motorola	MCM94000	
MSC23408	Hitachi	HB56A48B	
	Mitsubishi	MH408A	
	NEC	MC42100A8B	
	Samsung	KMM584000A	
	Toshiba	THM84000A	
MSC23409	Hitachi	HB56A49B	
	Mitsubishi	MH4M09A	
	NEC	MC424100A9B	
	Samsung	KMM594000A	
	Toshiba	THM94000A	
MSC2341	MicronSemi	MT8D48	
	Toshiba	THM84000	
MSC2350	Toshiba	THM361020	
MSC2356	MicronSemi	MT24D236	
MSC2358	MicronSemi	MT2D18	
MSC2359	MicronSemi	MT3D19	
MSC2360	MicronSemi	MT12D136	
MSC2361	MicronSemi	MT8D132	
MSC2362	MicronSemi	MT16D232	
MSL912	Allegro Micro	UDN6118	
MSM16811	**Catalyst Semi**	**CAT93C46**	**(3565)**
	EXEL	XL93C46	
		XL93LC46	
	Hyundai	HY93C46	
	National	NMC9346	
	ROHM	BR93C46	
MSM16812	**Catalyst Semi**	**CAT35C102**	**(3565)**
	ROHM	BR93C56	
MSM16911	Catalyst Semi	CAT59C11	
	Microchip	ER5911	
MSM16912	Catalyst Semi	CAT35C202	
	Microchip	ER5912	
MSM2114	**Krueger**	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
MSM2128	**Krueger**	**2128-100**	**(3663)**
		2128-120	**(3663)**
MSM27C1024	AMD	AM27C1024	
	ATMEL	AT27C1024	
	Catalyst Semi	CAT27C210	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	27210	
	Krueger	27C210	
	Mitsubishi	M5M27C102	
	NEC	μPD27C1024	
	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC571024	
MSM27C128	TI	TMS27C128	
		TMS27PC128	
MSM27C2000	Mitsubishi	M5M27C201	
MSM27C2048	Mitsubishi	M5M27C202	
MSM27C256	AMD	AM27C256	
	ATMEL	AT27C256	
	Fujitsu	MBM27C256	
	Hitachi	HN27C256	
	Intel	27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	Mitsubishi	M5M27C256	
	NEC	μPD27C256	
	SEEQ	27C256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
		TC57256	
	Waferscale	WS27C256	
		WS57C256	
MSM27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
MSM271000	AMD	AM27C010	
	Catalyst Semi	CAT27010	
	Fujitsu	MBM27C1001	
	Hitachi	HN27C101	
	Intel	27010	
	Mitsubishi	M5M27C101	
	NEC	μPD27C1001	
	Toshiba	TC571000	
MSM271024	AMD	AM27C1024	
	ATMEL	AT27C1024	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	27210	
	Mitsubishi	M5M27C102	
	NEC	μPD27C1024	
	TI	TMS27C210A	
		TMS27PC210A	
	Toshiba	TC571024	
MSM27128	AMD	AM27128	
	Catalyst Semi	CAT27128	
	Fujitsu	MBM27128	
	Hitachi	HN4827128	
	Intel	27128	
	Krueger	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	Mitsubishi	M5L27128	
	NEC	μPD27128	
	SEEQ	27128	
	TI	TMS27C128	
		TMS27PC128	
	Toshiba	TMM27128	
MSM2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
MSM27256	AMD	AM27256	
	Catalyst Semi	CAT27256	
	Fujitsu	MBM27256	
	Hitachi	HN27256	
	Intel	27256	
	Krueger	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	Mitsubishi	M5L27256	
	NEC	μPD27256	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC57256	
		TMM27256	
MSM2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
MSM27512	AMD	AM27512	
	Catalyst Semi	CAT27512	
	Fujitsu	MBM27512	
	Hitachi	HN27512	
	Intel	27512	
	Krueger	**27512-200**	**(3663)**
		27512-250	**(3663)**
	Mitsubishi	M5L27512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TMM27512	
MSM2764	AMD	AM2764	
	Catalyst Semi	CAT2764	
	Fujitsu	MBM2764	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

OKI Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MSM2764			(Cont'd)
	Hitachi	HN482764	
	Intel	2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	Mitsubishi	M5L2764	
	NEC	μPD2764	
	Toshiba	TMM2764	
MSM2764A	**Krueger**	**2764A-200**	**(3663)**
		2764A-300	**(3663)**
		2764A-450	**(3663)**
MSM28C16	Catalyst Semi	CAT28C16	
	EXEL	XL28C16	
	Samsung	KM28C16	
	SEEQ	2816	
	Xicor	X2816	
MSM28C256	Catalyst Semi	CAT28C256	
	SEEQ	28C256	
	Xicor	X28C256	
MSM28C64	ATMEL	AT28C64	
	Fujitsu	MBM28C64	
	Hitachi	HN58C65	
	Intel	2864	
	Mitsubishi	M5M28C64	
	NEC	μPD28C64	
	Samsung	KM28C64	
	SEEQ	28C64	
	Xicor	X28C64	
MSM28F101	Catalyst Semi	CAT28F010	
	Hitachi	HN29C101	
	Intel	28F010	
	Mitsubishi	M5M28F101	
	SEEQ	47F010	
MSM2816	Catalyst Semi	CAT28C16	
MSM2864	Catalyst Semi	CAT28C64	
MSM2965	Hughes	H23C64	
		H23C65	
MSM3716	Krueger	4116-120	
		4116-150	
		4116-200	
MSM37256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
MSM3764	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
	Samsung	KM4164	
MSM3764A	Fujitsu	MB8264A	
	Hitachi	HM4864A	
	Mitsubishi	M5K4164A	
	Motorola	MCM6665A	
	NEC	μPD4164A	
	TI	TMS4164A	
	Toshiba	TMM4164A	
MSM38128	Mitsubishi	M5M23128	
	Panasonic	MN23128	
	Sharp	LH23126	
	Toshiba	TMM23128	
MSM38256	Mitsubishi	M5M23256	
	NEC	μPD23256	
	Panasonic	MN23257	
	Sharp	LH23257	
MSM3864	Hughes	H23C64	
		H23C65	
	Mitsubishi	M5M2364	
	NEC	μPD2364	
	Panasonic	MN2364	
	Sharp	LH2369	
	Toshiba	TMM2365	
MSM41000	TI	TMS4C1024	
MSM41001	TI	TMS4C1025	
MSM41002	TI	TMS4C1027	
MSM411000	Panasonic	MN411000	
MSM41256	GoldStar	GM71256	
	Hyundai	HY53C256	
	Mosel-Vitelic	V53C256	
	Panasonic	MN41256	
MSM41256A	Fujitsu	MB81256	
	Hitachi	HM50256	
	Mitsubishi	M5M4256	
	Motorola	MCM6256	
	NEC	μPD41256	
			(Continued)
MSM41256A			(Cont'd)
	TI	TMS4256	
	Toshiba	TMM41256C	
MSM41257	NEC	μPD41257	
	Panasonic	MN41257	
	Samsung	KM41C257	
MSM41257A	Fujitsu	MB81257	
	Hitachi	HM50257	
	Mitsubishi	M5M41257	
	Motorola	MCM6257	
	NEC	μPD41257	
	TI	TMS4257	
	Toshiba	TMM41257	
MSM414256	TI	TMS44C256	
MSM41464	Fujitsu	MB81464	
	Hitachi	HM50464P	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mosel-Vitelic	V53C464	
	NEC	μPD41464C	
	Samsung	KM41C464	
	Toshiba	TMM41464P	
MSM5001	Samsung	KS5199	
	Sanyo	KS5120	
MSM5004	Samsung	KS5195	
MSM51C256	Samsung	KM41C256	
MSM51C256A			
	Fujitsu	MB81C258	
	Mitsubishi	M5M4256A	
	Toshiba	TC51256	
MSM51C4256			
	Hyundai	HY534256	
MSM51C464A			
	Fujitsu	MB81C466	
	Mitsubishi	M5M4464A	
MSM51008	Hyundai	HY628100	
MSM5104	Harris	HM6504	
MSM511000	GoldStar	GM71C1000	
	Hyundai	HY531000	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	Toshiba	TC511000	
		TC511000B	
MSM511000A			
	Fujitsu	MB81C1000	
	Hitachi	HB511000A	
	Mitsubishi	M5M41000A	
	NEC	μPD421000	
	Samsung	KM41C1000A	
	Toshiba	TC511000	
MSM511000B			
	Fujitsu	MB81C1000A	
	Hitachi	HM511000B	
	Mitsubishi	M5M4C1000	
		M5M41000B	
	Motorola	MCM511000A	
	NEC	μPD421000	
	TI	TMS4C1024	
	Toshiba	TC511000A	
MSM511001	Samsung	KM41C1001	
	Toshiba	TC511001	
		TC511001B	
MSM511001A			
	Fujitsu	MB81C1001	
	Hitachi	HB511001A	
	Mitsubishi	M5M41001A	
	NEC	μPD421001	
	Samsung	KM41C1001A	
	Toshiba	TC511001	
MSM511001B			
	Fujitsu	MB81C1001A	
	Hitachi	HM511001A	
	Mitsubishi	M5M4C1001	
		M5M41001B	
	Motorola	MCM511001A	
	NEC	μPD421001	
	TI	TMS4C1025	
	Toshiba	TC511001A	
MSM511002	MicronSemi	MT4C1026	
	Motorola	MCM511002	
	Panasonic	MN41C1002	
	Samsung	KM41C1002	
	Toshiba	TC511002	
			(Continued)
MSM511002A			
	Fujitsu	MB81C1002	
	Hitachi	HB511002A	
	Mitsubishi	M5M41002A	
	NEC	μPD421002	
	Samsung	KM41C1002A	
	Toshiba	TC511002	
MSM511002B			
	Fujitsu	MB81C1002	
	Hitachi	HM511002A	
	Mitsubishi	M5M4C1002	
		M5M41002B	
	Motorola	MCM511002A	
	NEC	μPD421002	
	TI	TMS4C1027	
	Toshiba	TC511002A	
MSM5114	Harris	HM6514	
	Krueger	21C14-150	
		21C14-200	
		21C14-450	
MSM5115	Harris	HM6514	
MSM5116100			
	MicronSemi	MT4C16	
MSM5116400			
	MicronSemi	MT4C4M4	
MSM51256	Sharp	LH51256	
	Toshiba	TC55256	
MSM51257	Catalyst Semi	CAT71C256	
	Cypress	CY7C199	
	Fujitsu	MB84256	
	Hitachi	HM62256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
		MS62257	
	Motorola	MCM60256	
	NEC	μPD43256	
	Panasonic	MN44256	
	Sharp	LH52250AL	
		LH52256	
	Sony	CXK58256	
	Toshiba	TC55257	
	UMC	UM62256	
MSM51257B	Hyundai	HY62256A	
MSM5127	Panasonic	MN4416	
MSM5128	GoldStar	GM76C28	
	Harris	HM65162	
	Hyundai	HY6116A	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Panasonic	MN4416	
	UMC	UM6116	
MSM5129	Panasonic	MN4416	
MSM514100	Hyundai	HY514100	
	MicronSemi	MT4C1004	
	Mosel-Vitelic	V53C400	
	NEC	μPD424100	
	Samsung	KM41C4000	
	TI	TMS44100	
	Toshiba	TC514100	
MSM514100A			
	Hitachi	HB514100	
	Mitsubishi	M5M44000	
	NEC	μPD424100	
	Samsung	KM41C4000A	
	Toshiba	TC51400	
MSM514101	Samsung	KM41C4001	
	Toshiba	TC514101	
MSM514101A			
	Hitachi	HB514101	
	Mitsubishi	M5M44001	
	NEC	μPD424101	
	Samsung	KM41C4001A	
	Toshiba	TC51401	
MSM514102	MicronSemi	MT4C1006	
	Samsung	KM41C4002	
	Toshiba	TC514102	
MSM514102A			
	Hitachi	HB514102	
	Mitsubishi	M5M44002	
	NEC	μPD424102	
	Samsung	KM41C4002A	
	Toshiba	TC51402	
MSM514221	TI	TMS4C1050	
MSM514251	TI	TMS44C250	
		TMS44C251	
			(Continued)
MSM514252	MicronSemi	MT42C4256	
	NEC	μPD42274	
	TI	TMS44C250	
		TMS44C251	
MSM514256	GoldStar	GM71C4256	
		GM71C7256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	Motorola	MCM514256	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Toshiba	TC514256	
		TC514256B	
MSM514256A			
	Fujitsu	MB81C4256	
	Hitachi	HB514256A	
	Mitsubishi	M5M44256A	
	NEC	μPD424256	
	Samsung	KM44C256A	
	Toshiba	TC514256A	
MSM514256B			
	Fujitsu	MB81C4256A	
	Hitachi	HM514256A	
	Mitsubishi	M5M44C256	
		M5M44256	
	Motorola	MCM514256A	
	NEC	μPD424256	
	Toshiba	TC514256A	
MSM514258	Fujitsu	MB81C4258	
	Hitachi	HM514258	
	MicronSemi	MT4C4258	
	Mitsubishi	M5M44C258	
		M5M44258	
	Motorola	MCM514258	
	NEC	μPD424258	
	Panasonic	MN41C4258	
	Samsung	KM44C258	
	TI	TMS44C256	
	Toshiba	TC514258	
		TC514258B	
MSM514258A			
	Fujitsu	MB81C4258	
	Hitachi	HB514258A	
	Mitsubishi	M5M44258A	
	NEC	μPD424258	
	Samsung	KM44C258A	
	Toshiba	TC514258A	
MSM514266B			
	Hitachi	HM514256A	
	Mitsubishi	M5M44266B	
	NEC	μPD424266	
	Toshiba	TC514266A	
MSM514400	Hyundai	HY514400	
	MicronSemi	MT4C4001	
	Mosel-Vitelic	V53C404	
	NEC	μPD424400	
	Samsung	KM44C1000	
	TI	TMS44400	
		TMS44410	
	Toshiba	TC514400	
MSM514400A			
	Fujitsu	MB814400A	
	Hitachi	HB514400	
	Mitsubishi	M5M44402	
	NEC	μPD424400	
	Samsung	KM41C1000A	
	Toshiba	TC514400	
MSM5144002			
	MicronSemi	MT4C4003	
MSM514402	Samsung	KM44C1002	
	Toshiba	TC514402	
MSM514402A			
	Hitachi	HB514402	
	Mitsubishi	M5M44000	
	NEC	μPD424402	
	Samsung	KM41C1002A	
	Toshiba	TC514402	
MSM5144101			
	TI	TMS44101	
MSM5165	Fujitsu	MB8464	
	GoldStar	GM76C88	
	Hitachi	HM6264	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mitsubishi	M5M5165	
	Motorola	MCM6064	
	NEC	μPD4364	
	Panasonic	MN4464	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

OKI Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MSM5165			(Cont'd)
	Sony	CXK5864	
	Toshiba	TC5563	
		TC5565	
	UMC	UM6264	
MSM5165A	Hyundai	HY6264A	
	Sharp	LH5168	
MSM5165L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
MSM5178	Toshiba	TC5588	
MSM5187	Toshiba	TC5561	
		TC5562	
MSM5188	Hitachi	HM6288	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	Mitsubishi	M5M5188	
	NEC	μPD4362	
	Sony	CXK5464	
	Toshiba	TC55416	
MSM521001	Hitachi	HM628128	
	Mitsubishi	M5M51008	
	NEC	μPD431000A	
	Sony	CXK581000	
	Toshiba	TC551001A	
MSM52464	LogicDev	L7C194	
MSM5258	Toshiba	TC55464	
MSM5259	**NJR**	**NJU6407B**	**(3705)**
	Samsung	KS0061	
MSM5279	NJR	NJU6416	
MSM5298	Samsung	KS0101	
MSM5299	Samsung	KS0102	
MSM531000	GoldStar	GM231000	
MSM531000A			
	Fujitsu	MB831000	
	Hitachi	HN62321	
	Mitsubishi	M5M23C100	
	NEC	μPD23C1000	
	Panasonic	MN231000	
	Sharp	LH531000	
	Toshiba	TC531000	
MSM531001A			
	Hitachi	HN62321 A	
	NEC	μPD23C1001	
	Panasonic	MN231003	
	Sharp	LH530800	
	Toshiba	TC531001	
MSM5316	Hughes	H23C16	
MSM532001A			
	Fujitsu	MB832000A	
	Hitachi	HN62302B	
	NEC	μPD23C2001	
MSM53256	Fujitsu	MB83256	
	Hitachi	HN623257	
	NEC	μPD23C256	
	Sharp	LH53257	
	Toshiba	TC53257	
MSM534000	Fujitsu	MB834100	
MSM534001A			
	Fujitsu	MB834000B	
	Hitachi	HN62304B	
	Mitsubishi	M5M23C401A	
	NEC	μPD23C4001	
	Panasonic	MN234002	
	Sharp	LH534300	
	Toshiba	TC53400	
MSM534002A			
	Fujitsu	MB834200A	
	Hitachi	HN62404	
	Mitsubishi	M5M23C400A	
	NEC	μPD23C4000	
	Panasonic	MN234000	
	Sharp	LH534500	
	Toshiba	TC534200	
MSM538001B			
	Fujitsu	MB838000	
	Hitachi	HN62324B	
	Mitsubishi	M5M23801	
	NEC	μPD23C8001	
	Panasonic	MN238002	
MSM538002B			
	Fujitsu	MB38200	
	Hitachi	HN62408	
	Mitsubishi	M5M23800	
	NEC	μPD23C8000	
	Panasonic	MN238000	
			(Continued)
MSM538002B			(Cont'd)
	Sharp	LH538000	
	Toshiba	TC538200	
MSM573	Hughes	H1822	
MSM575	Hughes	H1831	
		H1832	
MSM58371	**NJR**	**NJU3713**	**(3705)**
		NJU3714	
MSM5839	**NJR**	**NJU6407B**	**(3705)**
MSM5937	**NJR**	**NJU3715**	**(3705)**
		NJU3716	
MSM59371	**NJR**	**NJU3715**	**(3705)**
		NJU3716	
MSM6004	Samsung	KS5250	
MSM6222	Samsung	KS0062	
MSM6222B	**NJR**	**NJU6408**	**(3705)**
MSM6224	UMC	UM95088	
MSM6234	UMC	UM95089	
MSM6834	Samsung	KS7107	
MSM6964	Samsung	KS7100	
MSM6989	Samsung	KS7106	
MSM80C15	Siemens	SAB80C51	
MSM80C31	Intel	P80C31	
	Siemens	SAB80C31	
MSM80C39	Krueger	8039	
MSM80C51	Intel	P80C51	
MSM80C85A	AMD	AM8085A	
	Intel	8085AH	
	Mitsubishi	M5L8085A	
	NEC	μPD8085A	
	Newbridge	CA80C85B	
	Toshiba	TMP8085A	
MSM80C86	Harris	80C86	
MSM80C86A	AMD	AM8086	
	Fujitsu	MBL8086	
	Harris	80C86	
	Intel	8086	
	Mitsubishi	M5L8086	
	NEC	μPD70116	
		μPD8086	
MSM80C88	Harris	80C88	
MSM80C88A	AMD	AM8088	
	Fujitsu	MBL8088	
	Harris	80C88	
	Intel	8088	
	Mitsubishi	M5L8088	
	NEC	μPD70108	
		μPD8088	
MSM8085	Krueger	8085A	
MSM81C55	AMD	AM8155	
	Intel	8155H	
	Mitsubishi	M5L8155	
	NEC	μPD81555	
	Toshiba	TMP8155	
MSM81C56	AMD	AM8156	
	Intel	8156H	
	Mitsubishi	M5L8156	
	NEC	μPD8156H	
	Toshiba	TMP8156	
MSM82C12	AMD	AM8212C	
	Intel	8212	
	Mitsubishi	M5L8212	
	NEC	μPD8212	
	Toshiba	TMP8212	
MSM82C37	AMD	AM8257	
	Harris	82C37	
	Intel	8237	
	Mitsubishi	M5L8257	
	NEC	μPD8257	
MSM82C37A	Newbridge	CA82C37A	
MSM82C51	Harris	82C52	
	Mitsubishi	M5M82C51	
	NEC	μPD71051	
MSM82C51A	AMD	AM8251A	
	Intel	8251A	
	Mitsubishi	M5L8251	
	NEC	μPD8251A	
	Toshiba	TMP8251A	
MSM82C53	AMD	AM8253	
	Intel	8253	
	Mitsubishi	M5L8253A	
	NEC	μPD8253	
	OKI	M5M82C54	
	Toshiba	TMP8253	
MSM82C54	Harris	82C54	
	Newbridge	CA82C54	
MSM82C55	Harris	82C55	
	Krueger	8255	
	Mitsubishi	M5M82C55	
	NEC	μPD71055	
MSM82C55A	Fujitsu	M5L8255A	
	Intel	8255A	
	NEC	μPD8255A	
			(Continued)
MSM82C55A			(Cont'd)
	Newbridge	CA82C55A	
	Toshiba	TMP8255A	
MSM82C57	Unitrode	UC2847	
MSM82C59	Harris	82C59	
	Mitsubishi	M5M82C59	
	NEC	μPD71059	
MSM82C59A	Fujitsu	MBL8259A	
	Intel	8259A	
	Mitsubishi	M5L8259A	
	NEC	μPD8259A	
	Newbridge	CA82C59A	
	Toshiba	TMP8259A	
MSM82C84	Harris	82C84	
	NEC	μPD71084	
MSM82C84A	Fujitsu	MBL8284A	
	Intel	8284A	
	Mitsubishi	M5L8284	
	NEC	μPD8284A	
	Newbridge	CA82C84A	
MSM82C88	Fujitsu	MBL8288	
	Harris	82C88	
	Intel	8288	
	Mitsubishi	M5L8288	
	NEC	μPD71088	
		μPD8288	
	Newbridge	CA82C88	
MSM87C55A	Intel	8755	
	NEC	μPD8755A	
	Toshiba	TMP8755A	
M27512	Waferscale	WS27C512	
M5M4464	GoldStar	GM71C464	
M5M51256	Fujitsu	MB84256	
M5M51257	GoldStar	GM76C256	
M5M82C54	Harris	82C54	
	Mitsubishi	M5M82C54	
	NEC	μPD71054	
	OKI	MSM82C53	
M80C31	Krueger	8031	
M82C37	Samsung	KS82C37	
M82C51	Krueger	8251	
M82C53	Krueger	8253	
M82C54	Samsung	KS82C54	
M82C55	Samsung	KS82C55	
M82C59	Samsung	KS82C59	
M82C84	Samsung	KS82C84	
M82C88	Samsung	KS82C88	
UM91210	Sharp	UM91210	
74H000	**Lansdale**	**ML74H01**	**(3669)**
	Rochester	74H01	

Panasonic

Manufacturer Device	Replacement Source	Device	IC Master Page
AB6558	AnalogSys	MA336	
AN1081	Harris	CA081	
	Hitachi	HA7080	
	NEC	μPC4081	
		μPC801	
	TI	TL081	
AN1082	Harris	CA082	
	Hitachi	HA17082	
	NEC	μPC4082	
		μPC803	
	NJR	NJM082	
	TI	TL082	
AN1084	Hitachi	HA17084	
	NEC	μPC4084	
		μPC804	
	TI	TL084	
AN1234	AnalogSys	MA374	
AN1311	National	μA311	
		LM311	
	NEC	μPC271	
		μPC311	
	NJR	NJM311	
	TI	LM311	
AN1319	National	LM319	
	NEC	μPC272	
		μPC319	
	NJR	NJM319	
AN1324	Harris	CA324	
	Hitachi	HA17902	
	Motorola	LM324	
	National	μA324	
		LM324	
	NEC	μPC324	
		μPC451	
	NJR	NJM2902	
		NJM324	
	TI	LM324	
	Toshiba	TA75902	
AN1339	NJR	NJM2901	
AN1358	AnalogSys	MA336	
		MA372	
	Harris	CA358	
	Hitachi	HA17904	
	Motorola	LM358	
	National	LM358	
	NEC	μPC358	
	NJR	**NJM2904**	**(3704)**
	TI	LM358	
	Toshiba	TA75358	
AN1393	Hitachi	HA17903	
	National	LM2903	
		LM393	
	NEC	μPC277	
		μPC393	
	NJR	NJM2903	
	TI	LM393	
	Toshiba	TA75393	
AN1458	AnalogSys	MA336	
		MA372	
	Harris	CA1458	
	Hitachi	HA17458	
	Motorola	MC1458	
	National	μA1458	
		LM1458	
	NEC	μPC1458	
		μPC251	
	NJR	NJM1458	
	TI	MC1458	
	Toshiba	TA75458	
AN1741	AnalogSys	MA332	
		MA333	
		MA362	
	NJR	NJM741	
AN1883	NEC	μPC4570	
	TI	LM833	
AN311	NJR	NJM311	
AN4250	NEC	μPC4250	
		μPC802	
	NJR	**NJM4250**	**(3704)**
	TI	LM4250	
AN4558	AnalogSys	MA336	
		MA372	
	Motorola	MC4558	
	National	μA4558	
	NEC	μPC258	
		μPC4558	
	NJR	**NJM4558**	**(3704)**
	TI	RC4558	
	Toshiba	TA75558	
AN6551	American Micro	S6551	
	NJR	**NJM4558**	**(3704)**
	Toshiba	TA75558	
AN6552	AnalogSys	MA336	
		MA372	
	Motorola	MC4558	
	National	μA4558	
	NEC	μPC258	
		μPC4558	
	NJR	**NJM4558**	**(3704)**
	TI	RC4558	
	Toshiba	TA75558	
AN6553	NEC	μPC4559	
	NJR	NJM4559	
AN6554	AnalogSys	MA374	
	Motorola	MC4741	
	National	μA4136	
		LM4741	
	NEC	μPC458	
		μPC4741	
	NJR	NJM2059	
	Panasonic	NJM4741	
	TI	TC4136	
AN6555	NJR	NJM4559	
	Toshiba	TA75559	
AN6556	AnalogSys	MA336	
		MA372	
	NEC	μPC4559	
	NJR	NJM4559	
	TI	TL4558	
	Toshiba	TA75559	
AN6557	NJR	NJM2043	
AN6558	AnalogSys	MA372	
	NJR	NJM2043	
AN6561	**NJR**	**NJM2904**	**(3704)**
	Toshiba	TA75358	
AN6562	AnalogSys	MA336	
		MA372	
	Harris	CA358	
	Hitachi	HA17904	
	Motorola	LM358	
	National	LM358	
			(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Panasonic (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
AN6562			(Cont'd)
	NEC	μPC358	
	TI	LM358	
	Toshiba	TA75358	
AN6564	AnalogSys	MA374	
	Harris	CA324	
	Hitachi	HA17902	
	Motorola	LM324	
	National	μA324	
		LM324	
	NEC	μPC324	
		μPC451	
	NJR	NJM2902	
		NJM324	
	TI	LM324	
	Toshiba	TA75902	
AN6567	**NJR**	**NJM3415**	**(3704)**
AN6568	**NJR**	**NJM3415**	**(3704)**
AN6570	AnalogSys	MA332	
		MA333	
		MA362	
	NJR	NJM741	
AN6571	Toshiba	TA75458	
AN6572	AnalogSys	MA336	
		MA372	
	Harris	CA1458	
	Hitachi	HA17458	
	Motorola	MC1458	
	National	μA1458	
		LM1458	
	NEC	μPC1458	
		μPC251	
	TI	MC1458	
	Toshiba	TA75458	
AN6573	Toshiba	TA7504	
AN6581	NJR	NJM082	
AN6913	Toshiba	TA7539	
AN6914	Hitachi	HA17903	
	National	LM2903	
		LM393	
	NEC	μPC277	
		μPC393	
	TI	LM393	
	Toshiba	TA75393	
AN6915	Mitsubishi	M51207	
AN6918	Mitsubishi	M51209	
AN78B15	NEC	μPC78N15	
AN78L05	Motorola	MC78L05	
	National	μA78L05	
	NEC	μPC78L05	
	TI	μA78L05	
	Toshiba	TA78L005	
AN78L06	National	μA78L06	
	TI	μA78L06	
	Toshiba	TA78L006	
AN78L07	Toshiba	TA78L007	
AN78L08	Motorola	MC78L08	
	National	μA78L08	
	NEC	μPC78L08	
	TI	μA78L08	
	Toshiba	TA78L008	
AN78L09	National	μA78L09	
	TI	μA78L09	
	Toshiba	TA78L009	
AN78L10	National	μA78L10	
	NEC	μPC78L10	
	TI	μA78L10	
	Toshiba	TA78L010	
AN78L12	Motorola	MC78L12	
	National	μA78L12	
	NEC	μPC78L12	
	TI	μA78L12	
	Toshiba	TA78L012	
AN78L15	Motorola	MC78L15	
	National	μA78L15	
	NEC	μPC78L15	
	TI	μA78L15	
	Toshiba	TA78L015	
AN78L18	Motorola	MC78L18	
	National	μA78L18	
	Toshiba	TA78L018	
AN78L20	Toshiba	TA78L020	
AN78L24	Motorola	MC78L24	
	National	μA78L24	
	Toshiba	TA78L024	
AN78M06	TI	μA78M06	
AN78M08	TI	μA78M08	
AN78M10	TI	μA78M10	
AN78M12	TI	μA78M12	
AN78M15	TI	μA78M15	
AN78M20	TI	μA78M20	
AN78N05	NEC	μPC78N05	
AN78N08	NEC	μPC78N08	
AN78N10	NEC	μPC78N10	
AN78N12	NEC	μPC78N12	
AN78N18	NEC	μPC78N18	
AN78N24	NEC	μPC78N24	
AN7805	Samsung	MC7805	
	TI	μA7805	
AN7806	TI	μA7806	
AN7808	Samsung	MC7808	
	TI	μA7808	
AN7810	TI	μA7810	
AN7812	Samsung	MC7812	
AN7815	Samsung	MC7815	
AN7818	TI	μA7818	
AN7824	Samsung	MC7824	
	TI	μA7824	
AN79L05	Motorola	MC79L05	
	TI	MC79L05	
	Toshiba	TA79L005	
AN79L06	Toshiba	TA79L006	
AN79L08	Toshiba	TA79L008	
AN79L09	Toshiba	TA79L009	
AN79L10	Toshiba	TA79L010	
AN79L12	Motorola	MC79L12	
	TI	MC79L12	
	Toshiba	TA79L012	
AN79L15	Motorola	MC79L15	
	TI	MC79L15	
	Toshiba	TA79L015	
AN79L18	Motorola	MC79L18	
	Toshiba	TA79L018	
AN79L24	Motorola	MC79L24	
	Toshiba	TA79L024	
AN7905	Samsung	MC7905	
	TI	μA7905	
AN7906	TI	μA7906	
AN7908	Samsung	MC7908	
AN7912	Samsung	MC7912	
	TI	μA7912	
AN7915	Samsung	MC7915	
	TI	μA7915	
AN7918	TI	μA7918	
AN7924	TI	μA7924	
DN6835	Allegro Micro	UGN3501	
DN6836	Allegro Micro	UGN3501	
DN6838	Allegro Micro	UGN3130	
MC78L05	Motorola	MC78L05	
	National	μA78L05	
MN2114	**Krueger**	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
MN231000	OKI	MSM531000A	
MN231001	Fujitsu	MB831000	
	Hitachi	HN62301	
	NEC	μPD231000	
	Toshiba	TC531000	
MN231002	NEC	μPD23C1011	
MN231003	OKI	MSM531001A	
	Toshiba	TC531001	
MN23128	Hitachi	HN613128	
	Mitsubishi	M5M23128	
	NEC	μPD23128	
	OKI	MSM38128	
	Toshiba	TMM23128	
MN2316000	NEC	μPD23C16000	
	Toshiba	TC5316200	
MN23257	Fujitsu	MB83256	
	Hitachi	HN613256	
	Mitsubishi	M5M23256	
	NEC	μPD23256	
	OKI	MSM38256	
	Toshiba	TC53257	
MN234000	Fujitsu	MB834200	
	Hitachi	HN62404	
	Mitsubishi	M5M23C400	
	NEC	μPD23C4000	
	OKI	MSM534002A	
	Toshiba	TC534200	
MN234001	Fujitsu	MB834000	
	Hitachi	HN62304	
	Mitsubishi	M5M23C401	
	Toshiba	TC534000	
MN234002	OKI	MSM534001A	
MN2364	Fujitsu	MB8364	
	Hitachi	HN61364	
	Mitsubishi	M5M2364	
	NEC	μPD2364	
	OKI	MSM3864	
MN238000	OKI	MSM538002B	
	Toshiba	TC538200	
MN238002	OKI	MSM538001B	
MN2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
MN41C1000	Fujitsu	MB81C1000	
	Hitachi	HM511000	
	Mitsubishi	M5M4C1000	
	Motorola	MCM511000	
		MCM511000A	
	NEC	μPD421000	
	OKI	MSM511000	
	TI	TMS4C1024	
	Toshiba	TC511000	
MN41C1000A	Hyundai	HY531000	
MN41C1002	Fujitsu	MB81C1002	
	Hitachi	HM511002	
	Mitsubishi	M5M4C1002	
	NEC	μPD421002	
	OKI	MSM511002	
	Toshiba	TC511002	
MN41C4000	Motorola	MCM514256	
		MCM54100	
		MCM54100A	
	NEC	μPD424100	
	TI	TMS44100	
	Toshiba	TC514100	
MN41C4001	Motorola	MCM54101	
		MCM54101A	
	NEC	μPD424101	
MN41C4002	Motorola	MCM54102	
		MCM54102A	
	NEC	μPD424102	
MN41C41000	Hyundai	HY514400	
	Motorola	MCM54400	
		MCM54400A	
	NEC	μPD424400	
	TI	TMS44400	
		TMS44410	
	Toshiba	TC514400	
MN41C41002	Motorola	MCM54402	
		MCM54402A	
	NEC	μPD424402	
	Toshiba	TC514410	
MN41C4256	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	Mitsubishi	M5M44C256	
	Motorola	MCM514256A	
	NEC	μPD424256	
	OKI	MSM514256	
	TI	TMS44C256	
	Toshiba	TC514256	
MN41C4256A	Hyundai	HY534256	
MN41C4258	Fujitsu	MB81C4257	
	Hitachi	HM514258	
	Mitsubishi	M5M44C258	
	NEC	μPD424258	
	OKI	MSM514258	
	Toshiba	TC514258	
MN411000	Fujitsu	MB811000	
	Mitsubishi	M5M41000	
	NEC	μPD411000	
	OKI	MSM411000	
MN41256	Fujitsu	MB81256	
	Hitachi	HM50256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mitsubishi	M5M4256	
	NEC	μPD41256	
	OKI	MSM41256	
	Toshiba	TMM41256	
MN41256A	Hyundai	HY53C256	
MN41257	Fujitsu	MB81257	
	Hitachi	HM50257	
	Mitsubishi	M5M4257	
	NEC	μPD41257	
	OKI	MSM41257	
	Toshiba	TMM41257	
MN41464	Fujitsu	MB81464	
	Hitachi	HM50464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mitsubishi	M5M4464	
	NEC	μPD41464	
	Toshiba	TMM41464	
MN41464A	Hyundai	HY53C464	
MN4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
MN4216	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
MN4241000A	Hyundai	HY514100	
MN4364	**Krueger**	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
MN4416	Fujitsu	MB8416	
	Hitachi	HM6116	
	Mitsubishi	M5M5117	
	NEC	μPD446	
	OKI	MSM5127	
		MSM5128	
		MSM5129	
	Toshiba	TC5517	
MN44251	Sharp	LH52258	
MN44252	Sharp	LH52252	
	Toshiba	TC55464	
MN44256	Fujitsu	MB84256	
	Hitachi	HM62256	
	Mitsubishi	M5M5256	
	NEC	μPD43256	
	OKI	MSM51257	
	Sharp	LH52250AL	
	Toshiba	TC55257	
MN4464	Fujitsu	MB8464	
	Hitachi	HM6264	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mitsubishi	M5M5165	
	NEC	μPD4364	
	OKI	MSM5165	
	Toshiba	TC5565	
MN47464	Fujitsu	MB81461	
	Hitachi	HM53461	
	Mitsubishi	M5M4C264	
	NEC	μPD41264	
♦ MN74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
♦ MN74HC4052			
	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
NJM4741	NEC	μPC458	
		μPC4741	
	Panasonic	AN6554	
	ROHM	BA14741	
	TI	M5228	

Paradigm Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
PDM41024	IDT	IDT71024	
	MicronSemi	MT5C1008	
	Motorola	MCM6226	
	Sharp	LH521007	
		LH521008	
PDM41028	Motorola	MCM6228	
PDM41039	MicronSemi	MT56C1289	
PDM41096	MicronSemi	MT5C512K8B2	
PDM41251	Cypress	CY7C191	
	IDT	IDT71281	
PDM41252	Cypress	CY7C192	
	IDT	IDT71282	
PDM41256	Cypress	CY7C198	
		CY7C199	
	EDI	EDI8833	
	IDT	IDT71256	
	MicronSemi	MT5C2568	
	Mosaic Semi	MSM832	
	Motorola	MCM6206	
	Performance	P4C1256	
	Sharp	LH52258	
	Sony	CXK58255	
		CXK58258	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Paradigm Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
PDM41256			(Cont'd)
	Toshiba	TC55B328	
		TC55328	
PDM41257	Cypress	CY7C197	
	EDI	EDI81256	
	Hitachi	HM6207	
		HM6707	
	IDT	IDT71257	
	MicronSemi	MT5C2561	
	Mitsubishi	M5M5257	
		M5M5260	
	Mosaic Semi	MSM1256	
	Motorola	MCM6207	
	Performance	P4C1257	
	Sony	CXK51256	
PDM41258	Cypress	CY7C194	
	EDI	EDI8465	
	Hitachi	HM6208	
		HM6708	
	IDT	IDT71258	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Mosaic Semi	MSM464	
	Motorola	MCM6208	
	Performance	P4C1258	
	Sharp	LH52252	
	Sony	CXK54256	
	Toshiba	TC55464	
PDM41259	Motorola	MCM6209	
	Toshiba	TC55B329	
PDM41298	Cypress	CY7C196	
	IDT	IDT61298	
	MicronSemi	MT5C2565	
	Motorola	MCM6209	
	Toshiba	TC55465	
PDM4157	Motorola	MCM6207	
PDM42205	IDT	IDT72205A	
PDM42215	IDT	IDT72215A	
PDM42225	IDT	IDT72225A	
PDM51256	Motorola	MCM6206	

Performance Electronic Packaging Services

Manufacturer Device	Replacement Source	Device	IC Master Page
PEP1MX36	Hitachi	HB56D136B	
	IBM	34F2933	
	Samsung	KMM5361000	
	Toshiba	THM3610205	
PEP1MX40	Samsung	KMM5401000	
	Toshiba	THM401000ASG	
PEP1MX8	Mitsubishi	MH1M08	
	NEC	MC421000A8	
	Samsung	KMM581000A/P	
	TI	TM024GAD8	
	Toshiba	THM81000A	
PEP1MX9	Mitsubishi	MH1M09	
	NEC	MC421000A9	
	Samsung	KMM591000A/N	
	TI	TM024GAD9	
	Toshiba	THM91000A	
PEP2MX36	Hitachi	HB56D236B	
	Samsung	KMM5362000	
PEP2MX40	Samsung	KMM5402000	
	Toshiba	THM402000ASG	
PEP25636	Hitachi	HB56D25636	
	IBM	6450603	
	Samsung	KMM536256	
	Toshiba	THM362500A	
PEP4MX1	TI	TM024HAC4	
PEP4MX36	Hitachi	HB56A436	
	NEC	MC42100A36BJ80	
	Toshiba	THM364020	
PEP4MX8	Hitachi	HB56A48	
	NEC	MC4241000A8	
	Samsung	KMM584000	
PEP4MX9	Hitachi	HB56A49	
	NEC	MC424100A9	
	Samsung	KMM594000	
PEP4256EL8	NEC	MC41256A8	
	Samsung	KMM58256/AP	
PEP4256EL9	NEC	MC41256A9	
	Samsung	KMM59256/AN	
PEP51236	Hitachi	HB56D51236	
	IBM	6450604	
	Samsung	KMM536512	
	Toshiba	THM365120A	
S128KX8	Hitachi	HM66204	

Performance Semiconductor Corp.

Manufacturer Device	Replacement Source	Device	IC Master Page
μPD4362	Krueger	6289-25	
		6289-35	
		6289-45	
PMC1632	MicronSemi	MT8S1632	
PR3000	IDT	IDT79R3000	
PR3000A	IDT	IDT79R3000A	
PR3010	IDT	IDT79R3010	
PR3010A	IDT	IDT79R3010A	
PR3020	IDT	IDT79R3020	
PR3400L	IDT	IDT79R3500	
PR4000	IDT	IDT79R4000	
P29FCT52	Quality Semi	QS29FCT52	
P29FCT520	Quality Semi	QS29FCT520	
P29FCT521	Quality Semi	QS29FCT521	
P29FCT53	Quality Semi	QS29FCT53	
P29PCT52	IDT	IDT29FCT52	
	Quality Semi	QS29FCT52	
P29PCT520	IDT	IDT29FCT520	
	LogicDev	L29C520	
	Quality Semi	QS29FCT520	
P29PCT521	IDT	IDT29FCT521	
	LogicDev	L29C521	
	Quality Semi	QS29FCT521	
P29PCT53	IDT	IDT29FCT53	
P29PCT818	IDT	IDT29FCT818	
P29VP864	Cypress	CY7C263	
		CY7C264	
P29VS864	Cypress	CY7C261	
P29631	Cypress	CY7C281	
		CY7C282	
P29633	Cypress	CY7C281	
		CY7C282	
P29681	Cypress	CY7C291	
		CY7C292	
P29683	Cypress	CY7C291	
		CY7C292	
P3C218	MicronSemi	MT5C2516	
P39VP864	Cypress	CY7C263	
		CY7C264	
P39VS864	Cypress	CY7C261	
P4C116	AT&T	ATT7C116	
	Cypress	CY7C128	
	Fujitsu	MB8128	
	Hitachi	HM6116	
		HM6716	
	IDT	IDT6116	
	LogicDev	L6116	
	MicronSemi	MT5C1608	
	Motorola	MCM2016	
		MCM2018	
	SGS-Thomson		
		IMS1433	
	VLSI Tech	20C18	
P4C1256	AT&T	ATT7C199	
	Cypress	CY7C198	
		CY7C199	
	IDT	IDT71256	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
	Paradigm	PDM41256	
	Toshiba	TC55328	
P4C1257	AT&T	ATT7C197	
	Cypress	CY7C197	
	Fujitsu	MB81C81	
	IDT	IDT1257	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Motorola	MCM6207	
	Paradigm	PDM41257	
	SGS-Thomson		
		IMS1800	
P4C1258	AT&T	ATT7C194	
	Cypress	CY7C194	
	IDT	IDT71B258	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Motorola	MCM6208	
	Paradigm	PDM41258	
	Quality Semi	QS86440	
	Toshiba	TC55464	
P4C1281	IDT	IDT71231	
P4C1282	IDT	IDT71232	
P4C1298	IDT	IDT61B298	
	Motorola	MCM6209	
	Toshiba	TC55465	
P4C147	Cypress	CY2147	
		CY7C147	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
P4C147			(Cont'd)
	Fujitsu	MB2147	
	Hitachi	HM4847	
		HM6147	
	Motorola	MCM2147	
	SGS-Thomson		
		IMS1203	
P4C148	Cypress	CY2148	
		CY7C148	
	Hitachi	HM6168	
	SGS-Thomson		
		IMS1223	
P4C148L	Cypress	CY21L48	
P4C149	Cypress	CY2149	
		CY7C149	
	Fujitsu	MB2149	
P4C150	Cypress	CY7C150	
P4C163	IDT	IDT7169	
	Motorola	MCM6265	
	Toshiba	TC5589	
P4C164	AT&T	ATT7C185	
	Cypress	CY7C185	
		CY7C185A	
		CY7C186	
		CY7C186A	
	Fujitsu	MB81C78	
		MB8464	
	Hitachi	HM6264	
	IDT	IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Motorola	MCM6164	
		MCM6264	
	SGS-Thomson		
		IMS1630	
	Toshiba	TC5565	
		TC5588	
	VLSI Tech	20C98	
P4C168	AT&T	ATT7C168	
	Cypress	CY7C168	
	Fujitsu	MB8168	
	Hitachi	HM6168	
		HM6268	
	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Motorola	MCM1423	
		MCM6168	
		MCM6268	
	Quality Semi	QS8768	
	SGS-Thomson		
		IMS1420	
	Toshiba	TMM2068	
	VLSI Tech	20C68	
P4C1681	AT&T	ATT7C171	
	Cypress	CY7C171	
		CY7C171A	
	IDT	IDT1681	
		IDT71681	
	LogicDev	L7C171	
	Quality Semi	QS8761	
P4C1682	AT&T	ATT7C172	
	Cypress	CY7C172	
		CY7C172A	
	IDT	IDT1682	
		IDT71682	
	LogicDev	L7C172	
	Quality Semi	QS8762	
P4C169	Cypress	CY7C169	
		CY7C169A	
	Fujitsu	MB81C69	
	Motorola	MCM6269	
	SGS-Thomson		
		IMS1421	
	VLSI Tech	20C69	
P4C170	AT&T	ATT7C170	
	Cypress	CY7C170	
	LogicDev	L7C170	
	MicronSemi	MT5C1605	
	Motorola	MCM6270	
	VLSI Tech	20C79	
P4C187	AT&T	ATT7C187	
	Cypress	CY7C187	
		CY7C187A	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
P4C187			(Cont'd)
	Fujitsu	MB8171	
	Hitachi	HM6287	
	IDT	IDT7187	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Motorola	MCM6287	
		MC6287	
	SGS-Thomson		
		IMS1600	
		IMS1601	
	Toshiba	TC5561	
		TC5562	
P4C188	AT&T	ATT7C164	
	Cypress	CY7C164	
		CY7C164A	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
		HM6788	
	IDT	IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	Quality Semi	QS8888	
	SGS-Thomson		
		IMS1620	
	Toshiba	TC55416	
	VLSI Tech	VT64KS4	
P4C192	Cypress	CY7C162A	
P4C198	AT&T	ATT7C165	
		ATT7C166	
	Cypress	CY7C166	
		CY7C166A	
	Fujitsu	MB81C75	
	IDT	IDT6198	
		IDT7198	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Quality Semi	QS8886	
		QS8886A	
	SGS-Thomson		
		IMS1624	
	Toshiba	TC55417	
	VLSI Tech	VT65KS4	
P4C198A	IDT	IDT7198	
	LogicDev	L7C165	
	Quality Semi	QS8885	
P4C1981	AT&T	ATT7C161	
	Cypress	CY7C161	
		CY7C161A	
	IDT	IDT1981	
		IDT71981	
	LogicDev	L7C161	
	Quality Semi	QS8881	
P4C1982	AT&T	ATT7C162	
	Cypress	CY7C162	
	IDT	IDT1982	
		IDT71982	
	LogicDev	L7C162	
	Quality Semi	QS8882	
P4C218	MicronSemi	MT5C2516	
	Motorola	MCM62995	
P4C219	MicronSemi	MT58C1616	
P4C422	Cypress	CY7C122	
	VLSI Tech	7C122	
P4C6116	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
P41256	Cypress	CY7C199	
P54FCT841	IDT	IDT54FCT841	
P54PCT138	IDT	IDT54FCT138	
P54PCT139	IDT	IDT54FCT139	
P54PCT161	IDT	IDT54FCT161	
P54PCT163	IDT	IDT54FCT163	
P54PCT240	IDT	IDT54FCT240	
P54PCT241	IDT	IDT54FCT241	
P54PCT244	IDT	IDT54FCT244	
P54PCT245	IDT	IDT54FCT245	
P54PCT273	IDT	IDT54FCT273	
P54PCT373	IDT	IDT54FCT373	
P54PCT374	IDT	IDT54FCT374	
P54PCT377	IDT	IDT54FCT377	
P54PCT399	IDT	IDT54FCT399	
		IDT74FCT399	
P54PCT521	IDT	IDT54FCT521	
P54PCT533	IDT	IDT54FCT533	
◆ P54PCT533	IDT	IDT54FCT533	
P54PCT534	IDT	IDT54FCT534	
◆ P54PCT534	IDT	IDT54FCT534	

(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Performance Semiconductor Corp. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
P54PCT543	IDT	IDT54FCT543	
P54PCT544	IDT	IDT54FCT544	
♦ P54PCT545	IDT	IDT54FCT545	
P54PCT573	IDT	IDT54FCT573	
P54PCT574	IDT	IDT54FCT574	
P54PCT640	IDT	IDT54FCT640	
♦ P54PCT640	IDT	IDT54FCT640	
P54PCT643	IDT	IDT54FCT643	
P54PCT645	IDT	IDT54FCT645	
♦ P54PCT645	IDT	IDT54FCT645	
P54PCT646	IDT	IDT54FCT646	
P54PCT648	IDT	IDT54FCT648	
P54PCT651	IDT	IDT54FCT651	
P54PCT652	IDT	IDT54FCT652	
P54PCT821	IDT	IDT54FCT821	
		IDT74FCT821	
P54PCT823	IDT	IDT54FCT823	
P54PCT825	IDT	IDT54FCT825	
P54PCT827	IDT	IDT54FCT827	
P54PCT828	IDT	IDT54FCT828	
P54PCT833	IDT	IDT54FCT833	
P54PCT841	IDT	IDT54FCT841	
P54PCT843	IDT	IDT54FCT843	
P54PCT853	IDT	IDT54FCT853	
P74FCT138	IDT	IDT74FCT138	
P74FCT139	IDT	IDT74FCT139	
P74FCT161	IDT	IDT74FCT161	
P74FCT163	IDT	IDT74FCT163	
P74FCT244	IDT	IDT74FCT244	
P74FCT273	IDT	IDT74FCT273	
P74FCT373	IDT	IDT74FCT373	
P74FCT374	IDT	IDT74FCT374	
P74FCT377	IDT	IDT74FCT377	
P74FCT521	IDT	IDT74FCT521	
♦ P74FCT533	IDT	IDT74FCT533	
P74FCT543	IDT	IDT74FCT543	
♦ P74FCT545	IDT	IDT74FCT545	
P74FCT573	IDT	IDT74FCT573	
P74FCT574	IDT	IDT74FCT574	
♦ P74FCT640	IDT	IDT74FCT640	
♦ P74FCT643	IDT	IDT74FCT643	
♦ P74FCT645	IDT	IDT74FCT645	
♦ P74FCT646	IDT	IDT74FCT646	
♦ P74FCT648	IDT	IDT74FCT648	
P74FCT651	IDT	IDT74FCT651	
P74FCT652	IDT	IDT74FCT652	
P74FCT841	IDT	IDT74FCT841	
P74PCT138	IDT	IDT74FCT138	
P74PCT139	IDT	IDT74FCT139	
P74PCT161	IDT	IDT74FCT161	
P74PCT163	IDT	IDT74FCT163	
P74PCT214	IDT	IDT74FCT241	
P74PCT240	IDT	IDT74FCT240	
P74PCT241	IDT	IDT74FCT241	
P74PCT244	IDT	IDT74FCT244	
P74PCT245	IDT	IDT74FCT245	
P74PCT273	IDT	IDT74FCT273	
P74PCT373	IDT	IDT74FCT373	
P74PCT374	IDT	IDT74FCT374	
P74PCT377	IDT	IDT74FCT377	
P74PCT521	IDT	IDT74FCT521	
P74PCT534	IDT	IDT74FCT534	
P74PCT573	IDT	IDT74FCT573	
P74PCT574	IDT	IDT74FCT574	
P74PCT640	IDT	IDT74FCT640	
P74PCT645	IDT	IDT74FCT645	
P74PCT646	IDT	IDT74FCT646	
P74PCT821	IDT	IDT74FCT821	
P74PCT823	IDT	IDT74FCT823	
P74PCT825	IDT	IDT74FCT825	
P74PCT827	IDT	IDT74FCT827	
P74PCT828	IDT	IDT74FCT828	
P74PCT833	IDT	IDT74FCT833	
P74PCT841	IDT	IDT74FCT841	
P74PCT843	IDT	IDT74FCT843	
♦ P74PCT843	IDT	IDT74FCT843	
P74PCT853	IDT	IDT74FCT853	
P93U422	Cypress	CY7C122	
		CY93L422	
		CY93L422A	
		CY93422	
		CY93422A	
	Motorola	MCM93L422	
		MCM93L422A	
		MCM93422	
		MCM93422A	
R3000A	Siemens	SABR3000A	
R3010A	Siemens	SABR3010A	
R4000	Siemens	SABR4000	

Philips Semiconductors

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ μA710	Lansdale	ML1710	
μA723	Fujitsu	MB3752	
	Harris	CA0723	
		CA723	
	Motorola	MC1723	
	National	μA723	
		LM723	
	SGS-Thomson	LM723	
	TI	μA723	
μA733	National	μA733	
		LM733	
	TI	μA733	
μA741	AD	OP02	
	Motorola	MC1741	
	National	μA741	
		LM741	
	Samsung	LM741	
	SGS-Thomson	μA741	
		LM741	
	TI	μA741	
μA741C	Motorola	MC1741	
	National	LM741	
	Samsung	LM741	
	SGS-Thomson	LM741	
	TI	μA741	
μA747	Motorola	MC1747	
	National	LM747	
μA747C	Harris	CA747	
	Motorola	MC1747	
	National	LM747	
	TI	μA747	
♦ μA758	Ideal Semi	IUA758	
ADC0801	National	ADC0801	
ADC0802	National	ADC0802	
ADC0803	Harris	ADC0803	
	National	ADC0803	
	TI	ADC0803	
ADC0804	Harris	ADC0804	
	National	ADC0804	
	TI	ADC0804	
ADC0805	National	ADC0805	
ADC0820	AD	AD7820	
	National	ADC0820	
AMPAL18P8	AMD	AMPAL18P8	
AM26LS30	AMD	AM26LS30	
	National	DS3691	
AM26LS31	AMD	AM26LS31	
	Motorola	AM26LS31	
	National	DS26LS31	
	TI	AM26LS31	
AM26LS32	AMD	AM26LS32	
	Motorola	AM26LS32	
	National	DS26LS32	
		DS26LS32A	
	TI	AM26LS32	
AM26LS33	AMD	AM26LS33	
AM27LS33	National	DS26LS33A	
AM6012	AMD	AM6012	
	AD	DAC312	
	National	NS8464	
CA3089	National	LM3089	
CA741	Raytheon	RC741	
♦ CS700	Lansdale	SL700	
♦ CS701	Lansdale	SL701	
♦ CS704	Lansdale	SL704	
♦ CS705	Lansdale	SL705	
♦ CS709	Lansdale	SL709	
♦ CS716	Lansdale	SL716	
♦ CS720	Lansdale	SL720	
♦ CS721	Lansdale	SL721	
♦ CS727	Lansdale	SL727	
♦ CS729	Lansdale	SL729	
♦ CS730	Lansdale	SL730	
♦ CS731	Lansdale	SL731	
♦ CS732	Lansdale	SL732	
DAC08	AMD	DAC08	
	AD	DAC08	
	Motorola	DAC08	
	National	μA080	
		μA0801	
		DAC0800	
		DAC0801	
		DAC0802	
♦ DM54173	Lansdale	SL54173	
DS7820	National	DS7820	
DS7830	National	DS7830	
DS8820	National	DS8820	
DS8880	National	DS8880	
FCB61C1025	Sharp	LH521007	
		LH521008	
FCB61C252	Sharp	LH52252	
FCB61C253	Sharp	LH52253	
FCB61C257	Sharp	LH52250AL	
FCB61C62	**Krueger**	**6288-25**	**(3663)**
		6288-35	
		6288-45	
HEF4016	Unitrode	PIC7516	
♦ HEF4028	Rochester	54C42	
HEF4066	Unitrode	PIC7516	
♦ HEF4511	Rochester	14511	
♦ HEF4520	Rochester	14520	
HEF4534	American Micro	S4534	
ICM7555	Harris	ICM7555	
	National	LMC555	
	TI	TLC555	
LF198	AMD	LF198	
	Harris	HA2420	
	National	LF198	
LF224	National	LM224	
LF298	National	LF298	
LF356	AnalogSys	MA332	
		MA333	
		MA362	
LF398	AMD	LF398	
	LinearTech	LF398	
	National	LF398	
LH2101A	Raytheon	LH2101A	
LM101	LinearTech	LM101	
LM101A	Raytheon	LM101A	
LM109	National	LM109	
LM111	**AD**	**PM111**	**(3539)**
	LinearTech	LM111	
		LT1011	
	Motorola	LM111	
	National	LM111	
	SGS-Thomson	LM111	
LM119	AD	PM119	
	LinearTech	LM119	
		LT119	
	National	LM119	
	SGS-Thomson	LM119	
LM124	AD	OP11	
		OP421	
	Harris	CA124	
	LinearTech	LT1014	
	Motorola	LM124	
	National	μA124	
		LM124	
	Raytheon	LM124	
	SGS-Thomson	LM124	
	TI	LM124	
LM124/BCA	TI	LM124JB	
LM124/BDA	TI	LM124WB	
LM124F	TI	LM124J	
LM139	AD	CMP04	
		PM139	**(3539)**
	Motorola	LM139	
	National	LM139	
	Raytheon	LM139	
	SGS-Thomson	LM139	
LM139/BCA	TI	LM139JB	
LM139A	National	LM139A	
LM139A/BCA	TI	LM139AJB	
LM139AF	TI	LM139AJ	
LM139F	TI	LM139J	
LM1398	SGS-Thomson	LM139	
LM148	Raytheon	LM148	
LM158	LinearTech	LT1013	
	Motorola	LM158	
	National	LM158	
	SGS-Thomson	LM158	
LM193	Harris	CA3290	
	Motorola	LM193	
	National	LM193	
	SGS-Thomson	LM193	
LM193A	National	LM193A	
LM193FE	TI	LM193JG	
LM211	**AD**	**PM211**	**(3539)**
	Linfinity Micro	SG211	
	Motorola	LM211	
	National	LM211	
	SGS-Thomson	LM211	
	TI	LM211	
LM219	AD	PM219	
	National	LM219	
	SGS-Thomson	LM219	
LM224	AD	OP11	
		OP421	
	Motorola	LM224	
	National	LM224	
	SGS-Thomson	LM224	
	TI	LM224	
LM239	AD	CMP04	
	Harris	CA239	
	Motorola	LM239	
	National	LM239	
	SGS-Thomson	LM239	
	TI	LM239	
LM239A	Harris	CA239	
	Motorola	LM239	
	National	LM239	
	TI	LM239	
LM239A33	National	LM239A	
LM258	AD	OP221	
	Motorola	LM258	
	National	LM258	
	NEC	μPC258	
	SGS-Thomson	LM258	
	TI	LM258	
LM2901	Motorola	LM2901	
	National	μA2901	
		LM2901	
	SGS-Thomson	LM2901	
	TI	LM2901	
LM2902	AD	OP421	
	Motorola	LM2902	
	National	LM2902	
	TI	LM2902	
LM2903	Harris	CA3290	
	Motorola	LM2903	
	National	LM2903	
	SGS-Thomson	LM2903	
	TI	LM2903	
LM2904	AD	OP221	
	Motorola	LM2904	
	National	LM2904	
	TI	LM2904	
LM293	Harris	CA3290	
	Motorola	LM293	
		LM293A	
	National	LM293	
		LM293A	
	SGS-Thomson	LM293	
	TI	LM293	
		LM293A	
LM293A	National	LM293A	
LM309	National	LM309	
LM311	LinearTech	LM311	
		LT1011	
		LT311	
	Motorola	LM311	
	National	μA311	
		LM311	
	SGS-Thomson	LM311	
	TI	LM311	
LM319	National	LM319	
	NEC	μPC319	
	SGS-Thomson	LM319	
LM324	AD	OP11	
		OP421	
	Motorola	LM324	
	National	μA324	
		LM324	
	Raytheon	LM324	
	Samsung	LM324	
	SGS-Thomson	LM324	
	TI	LM324	
LM324A	Motorola	LM324	
		LM324A	
	National	LM324	
		LM324A	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
LM324A			(Cont'd)
	Samsung	LM324	
	SGS-Thomson	LM324	
	TI	LM324	
LM339	AD	CMP04	
	Harris	CA339	
	Motorola	LM339	
	National	μA339	
		LM339	
	SGS-Thomson	LM339	
	TI	LM339	
LM339A	National	LM339A	
LM340	National	LM340	
LM348	Raytheon	LM348	
LM358	AD	OP221	
	AnalogSys	MA372	
	Harris	CA358	
	Motorola	LM358	
	National	LM358	
	SGS-Thomson	LM358	
	TI	LM358	
LM393	Harris	CA3290	
	Motorola	LM393	
	National	LM393	
	SGS-Thomson	LM393	
	TI	LM393	
LM393A	Motorola	LM393	
		LM393A	
	National	LM393	
		LM393A	
	SGS-Thomson	LM393	
	TI	LM393	
		LM393A	
LT111	LinearTech	LT111	
MAB8031	Krueger	8031	
MC1408	AD	DAC1408	
		DAC1508	
	GEC Plessey	ZN429	
	National	μA0801	
		DAC0806	
		DAC0807	
		DAC0808	
MC1458	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Motorola	MC1458	
	National	μA1458	
		LM1458	
	Samsung	MC1458	
	SGS-Thomson	MC1458	
	TI	MC1458	
MC1488	National	DS1488	
	SGS-Thomson	MC1488	
♦ MC1488	Lansdale	SL1488	
MC1489	National	DS1489	
	SGS-Thomson	MC1489	
♦ MC1489	Lansdale	SL1489	
MC1489A	National	DS1489A	
♦ MC1489A	Lansdale	SL1489A	
MC1496	Linfinity Micro	SG1496	
	Motorola	MC1496	
	National	LM1496	
MC1508	GEC Plessey	ZN429	
	National	DAC0808	
MC1508-8	Motorola	MC1508	
	National	DAC0808	
MC1558	LinearTech	LT1013	
	Motorola	MC1558	
	National	LM1558	
	SGS-Thomson	MC1558	
MC1596	National	LM1596	
MC3302	Harris	CA3290	
	Motorola	MC3302	
	National	μA3302	
		LM3302	
	SGS-Thomson	MC3302	
MC3303	Harris	CA5470	
	SGS-Thomson	MC3303	
			(Continued)
MC3361	Motorola	MC3361	
	Samsung	MC3361	
MC3403	AD	OP421	
	AnalogSys	MA374	
	National	LM3403	
	SGS-Thomson	MC3403	
♦ MC3403	Ideal Semi	IMC3403	
MC3410	Motorola	MC3410	
MC3503	AD	OP421	
	SGS-Thomson	MC3503	
MK4501	Mosel-Vitelic	7201A	
NE1037	LinearTech	LT1037	
NE4558	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Exar	XR4558	
	Motorola	MC4558	
	National	LM833	
	SGS-Thomson	MC4558	
NE5007	National	DAC0802	
NE5009	AMD	DAC08	
	National	DAC0801	
NE5018	Datel	DACUP8	
	GEC Plessey	ZN428	
		ZN558	
NE5019	Datel	DACuP8B	
	GEC Plessey	ZN428	
		ZN558	
NE5020	Datel	DACUP10	
NE5034	GEC Plessey	ZN448	
	National	ADC0841	
	TI	TLC532	
♦ NE5034	Ideal Semi	INE5034	
NE5036	GEC Plessey	ZN449	
	TI	TLC549	
NE5037	GEC Plessey	ZN449	
	TI	TLC549	
♦ NE5045	Ideal Semi	INE5045	
♦ NE5060	Ideal Semi	INE5060	
NE5118	GEC Plessey	ZN428	
		ZN558	
	National	DAC0830	
♦ NE5118	Ideal Semi	INE5118	
NE5119	GEC Plessey	ZN428	
		ZN558	
♦ NE5150	Ideal Semi	INE5150	
♦ NE5151	Ideal Semi	INE5151	
♦ NE5152	Ideal Semi	INE5152	
NE5170	Unitrode	UC5170	
NE5180	Unitrode	UC5180	
NE5209	Elantec	EL2082	
NE521	TI	SN55107	
NE5230	Harris	CA5160	
NE529	National	LM161	
		LM361	
NE530	AD	OP42	
	AnalogSys	MA332	
		MA333	
		MA362	
♦ NE530	Ideal Semi	INE530	
NE531	AD	OP42	
	AnalogSys	MA332	
		MA333	
		MA362	
	Elantec	EHA2515	
	Motorola	MC1439	
NE532	AD	NE532	
	AnalogSys	MA336	
		MA372	
	Harris	CA358	
		CA358A	
	Motorola	LM358	
		LM358A	
	National	LM358	
		LM358A	
	SGS-Thomson	LM358	
		NE532	
	TI	LM358	
		LM358A	
		TL022	
NE533	Motorola	MC1776	
NE537	Motorola	MC1456	
NE538	AD	OP42	
	AnalogSys	MA332	
		MA362	
	Elantec	EHA2520	
NE540	Motorola	MC1554	
NE5410	National	DAC1020	
♦ NE542	Ideal Semi	INE542	
			(Continued)
♦ NE544	Ideal Semi	INE544	
NE550	Motorola	MC1723	
NE5503	Allegro Micro	ULN2023	
NE5504	Allegro Micro	ULN2024	
NE551	AD	NE532	
NE5512	AD	OP14	
NE5514	AD	OP11	
NE5517	Exar	XR13600	
	Harris	CA3280	
	National	LM13600	
♦ NE5520	Ideal Semi	INE5520	
NE5532	AD	OP270	
		SSM2139	**(3529)**
	AnalogSys	MA372	
	Burr-Brown	OPA2604	
	Exar	XR5532	
	Harris	HA5102	
		HA5202	
	National	LM833	
	Raytheon	RC5532	
	TI	NE5532	
		TL072	
NE5533	**AD**	**SSM2139**	**(3529)**
	Exar	XR5533	
	TI	NE5533	
		NE5533A	
NE5534	**AD**	**SSM2134**	**(3529)**
	AnalogSys	MA332	
		MA362	
	Burr-Brown	**OPA604**	**(3458)**
	Datel	AM453	
	Exar	XR5534	
	Harris	HA5101	
	LinearTech	LT1037	
		OP37	
	Raytheon	RC5534	
		RC5534A	
	TI	NE5534	
NE5535	**AD**	**SSM2139**	**(3529)**
	AnalogSys	MA336	
		MA372	
♦ NE5535	Ideal Semi	INE5535	
NE5537	AMD	LF398	
	National	μA198	
		LF398	
NE5539	**AD**	**AD5539**	**(3529)**
	GEC Plessey	SL541	
	Harris	HA2539	
	Motorola	MC5539	
	National	LM5539	
NE555	Exar	XR555	
	Motorola	MC1455	
		NE555	
	National	μA555	
		LM555	
	Samsung	NE555	
	SGS-Thomson	NE555	
	TI	NE555	
		TLC555	
NE556	Harris	ICM7556	
	Motorola	NE556	
	National	μA556	
		LM556	
	Samsung	NE556	
	SGS-Thomson	NE556	
	TI	NE556	
		TLC556	
NE5560	Allegro Micro	ULN8160	
	GoldStar	GL5560	
NE5561	Allegro Micro	ULN8161	
	GoldStar	GL5561	
	Motorola	MC34060	
		MC3456	
NE5568	Allegro Micro	ULN8168	
NE558	Exar	XR558	
	Samsung	NE558	
NE5601	Allegro Micro	ULN2001	
	National	DS2001	
	SGS-Thomson	ULN2001	
NE5602	National	DS2002	
	SGS-Thomson	ULN2002	
			(Continued)
NE5603	Allegro Micro	ULN2003	
	National	DS2003	
	SGS-Thomson	ULN2003	
NE5604	Allegro Micro	ULN2004	
	National	DS2004	
	SGS-Thomson	ULN2004	
NE564	Allegro Micro	ULN8564	
NE565	National	LM565	
♦ NE565	Ideal Semi	INE564	
NE566	National	LM566	
NE567	Exar	XRL567	
		XR567	
	National	LM567	
NE571	NEC	μPC1571	
NE582	National	DS75494	
♦ NE589	Ideal Semi	INE589	
NE592	Harris	NE592	
	Motorola	NE592	
	National	LM592	
	TI	NE592	
		TL592	
NE594	Allegro Micro	UDN6118	
		ULN618	
	Exar	XR6118	
NE602	GEC Plessey	SL6652	
		SL6654	
NE604	GEC Plessey	SL6652	
		SL6654	
NE605	GEC Plessey	SL6654	
NE8392	Crystal	CS83C92	
	Fujitsu	MBL8392	
NE8392AN	National	DP8392A	
N27HC641	Fujitsu	MB71C44	
		MB7144	
♦ N2960	Lansdale	SL2960	
♦ N2964B	Lansdale	SL2964B	
♦ N3001	Lansdale	SL3001	
♦ N3002	Lansdale	SL3002	
N3101	AMD	AM27S02	
N5556	Motorola	MC1456	
N5558	Motorola	MC1458	
N5595	Motorola	MC1495	
N5596	Motorola	MC1496	
N5709	Motorola	MC1709	
N5723	Motorola	MC1723	
N5741	Motorola	MC1741	
N5747	Motorola	MC1747	
N5748	Motorola	MC1747	
		MC1748	
N74F151	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151	
		74F151A	
	Philips	N74F151A	
		74F151	
	TI	SN74F151	
		SN74F151A	
N74F151A	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151	
		74F151A	
	Philips	N74F151	
		74F151	
	TI	SN74F151	
		SN74F151A	
N74F158A	Mitsubishi	M74F158A	
	Motorola	MC74F158	
		MC74F158A	
	National	74F158	
		74F158A	
	Philips	74F158	
	TI	SN74F158A	
N74F189	AMD	AM27S03	
N74F251A	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251	
		74F251A	
	Philips	74F251	
		74F251A	
	TI	SN74F251	
		SN74F251A	
N74F257A	Mitsubishi	M74F257A	
	Motorola	MC74F257	
		MC74F257A	
	National	74F257	
		74F257A	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
N74F257A			(Cont'd)
	Philips	74F257	
		74F257A	
	TI	SN74F257	
N74F258A	Mitsubishi	M74F258A	
	Motorola	MC74F258	
		MC74F258A	
	National	74F258	
		74F258A	
	Philips	74F258	
		74F258A	
	TI	SN74F258	
N74F393	National	74F395	
	Philips	74F395	
N74F410	National	74F407	
		74F410	
N74F455	National	74F433	
	TI	SN74F455	
N74F5300	Philips	N74F5302	
N74F5302	Philips	N74F5300	
N74F574	Harris	CD74FCT574	
	Mitsubishi	M74F574	
	Motorola	MC74F574	
	National	74F574	
	TI	SN74F574	
N74F582	National	74F582	
N74F646	Harris	CD74FCT646	
N74F646A	Mitsubishi	M74F646	
	Motorola	MC74F646	
	National	74F646	
	Philips	74F646	
		74F646A	
	TI	SN74F646	
N74F648A	Mitsubishi	M74F648	
	Motorola	MC74F648	
	National	74F648	
	Philips	74F647	
		74F648	
		74F648A	
N74F651A	National	74F651	
	Philips	74F649	
		74F651	
		74F651A	
N74F652A	National	74F652	
	Philips	74F652	
		74F652A	
N74F777	Motorola	MC74F779	
	National	74F779	
	Philips	74F779	
N74F821	AMD	AM29821	
	Mitsubishi	M74F821	
	National	DM74F821	
N74F823	AMD	AM29823	
	Mitsubishi	M74F823	
	National	DM74F823	
N74F824	AMD	AM29824	
N74F825	AMD	AM29825	
	Mitsubishi	M74F825	
	National	DM74F825	
N74F827	AMD	AM29827	
	Motorola	MC74F827	
	National	DM74F827	
N74F828	AMD	AM29828	
	Motorola	MC74F828	
	National	DM74F828	
N74F841	AMD	AM29841	
	Mitsubishi	M74F841	
	National	DM74F841	
N74F843	AMD	AM29843	
	Mitsubishi	M74F843	
	National	DM74F843	
N74F845	AMD	AM29845	
	Mitsubishi	M74F845	
	National	DM74F845	
N74F861	AMD	AM29861	
N74F863	AMD	AM29863	
N74F8962	Philips	N74F8963	
N74F8963	Philips	N74F8962	
♦ N74H00	**Lansdale**	**ML74H00**	(3669)
		SL74H00	
♦ N74H01	**Lansdale**	**ML74H01**	(3669)
		SL74H01	
♦ N74H04	**Lansdale**	**ML74H04**	(3669)
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		SL74H08	
♦ N74H10	**Lansdale**	**ML74H10**	(3669)
		SL74H10	
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♦ N74H101	**Lansdale**	**ML74H101**	(3669)
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♦ N74H102	Lansdale	ML74H102	
		SL74H102	
♦ N74H103	**Lansdale**	**ML74H103**	(3669)
		SL74H103	
♦ N74H106	Lansdale	SL74H106	
♦ N74H108	**Lansdale**	**ML74H108**	(3669)
		SL74H108	
♦ N74H11	**Lansdale**	**ML74H11**	(3669)
		SL74H11	
♦ N74H20	**Lansdale**	**ML74H20**	(3669)
		SL74H20	
♦ N74H21	**Lansdale**	**ML74H21**	(3669)
		SL74H21	
♦ N74H22	**Lansdale**	**ML74H22**	(3669)
		SL74H22	
♦ N74H30	**Lansdale**	**ML74H30**	(3669)
		SL74H30	
♦ N74H40	**Lansdale**	**ML74H40**	(3669)
		SL74H40	
♦ N74H50	**Lansdale**	**ML74H50**	(3669)
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♦ N74H52	**Lansdale**	**ML74H52**	(3669)
		SL74H52	
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		SL74H53	
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		SL74H54	
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		SL74H55	
♦ N74H60	Lansdale	ML74H60	
		SL74H60	
♦ N74H61	**Lansdale**	**ML74H61**	(3669)
		SL74H61	
♦ N74H62	**Lansdale**	**ML74H62**	(3669)
		SL74H62	
♦ N74H71	Lansdale	ML74H71	
		SL74H71	
♦ N74H72	**Lansdale**	**ML74H72**	(3669)
		SL74H72	
♦ N74H73	**Lansdale**	**ML74H73**	(3669)
		SL74H73	
♦ N74H74	**Lansdale**	**ML74H74**	(3669)
		SL74H74	
♦ N74H76	Lansdale	SL74H76	
♦ N74LS00	**Lansdale**	**SL74LS00**	(3674)
♦ N74LS01	**Lansdale**	**SL74LS01**	(3674)
♦ N74LS02	**Lansdale**	**SL74LS02**	(3674)
♦ N74LS04	**Lansdale**	**SL74LS04**	(3674)
♦ N74LS08	**Lansdale**	**SL74LS08**	(3674)
♦ N74LS09	**Lansdale**	**SL74LS09**	(3674)
♦ N74LS10	**Lansdale**	**SL74LS10**	(3674)
♦ N74LS107	**Lansdale**	**SL74LS107**	(3674)
♦ N74LS109	**Lansdale**	**SL74LS109**	(3674)
♦ N74LS11	**Lansdale**	**SL74LS11**	(3674)
♦ N74LS112	**Lansdale**	**SL74LS112**	(3674)
♦ N74LS113	**Lansdale**	**SL74LS113**	(3674)
♦ N74LS125	**Lansdale**	**SL74LS125**	(3674)
♦ N74LS126	Lansdale	SL74LS126	
♦ N74LS13	**Lansdale**	**SL74LS13**	(3674)
♦ N74LS132	**Lansdale**	**SL74LS132**	(3674)
♦ N74LS136	**Lansdale**	**SL74LS136**	(3674)
♦ N74LS138	**Lansdale**	**SL74LS138**	(3674)
♦ N74LS139	**Lansdale**	**SL74LS139**	(3674)
♦ N74LS14	**Lansdale**	**SL74LS14**	(3674)
♦ N74LS151	**Lansdale**	**SL74LS151**	(3674)
♦ N74LS153	**Lansdale**	**SL74LS153**	(3674)
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♦ N74LS155	**Lansdale**	**SL74LS155**	(3674)
♦ N74LS156	**Lansdale**	**SL74LS156**	(3674)
♦ N74LS157	**Lansdale**	**SL74LS157**	(3674)
♦ N74LS158	**Lansdale**	**SL74LS158**	(3674)
♦ N74LS160	Lansdale	SL74LS160	
♦ N74LS161	Lansdale	SL74LS161	
♦ N74LS162	Lansdale	SL74LS162	
♦ N74LS163	Lansdale	SL74LS163	
♦ N74LS164	**Lansdale**	**SL74LS164**	(3674)
♦ N74LS169	Lansdale	SL74LS169	
♦ N74LS170	Lansdale	SL74LS170	
♦ N74LS173	**Lansdale**	**SL74LS173**	(3674)
♦ N74LS174	**Lansdale**	**SL74LS174**	(3674)
♦ N74LS175	**Lansdale**	**SL74LS175**	(3674)
♦ N74LS1801	Lansdale	SL74LS1801	
♦ N74LS181	Lansdale	SL74LS181	
♦ N74LS191	**Lansdale**	**SL74LS191**	(3674)
♦ N74LS192	**Lansdale**	**SL74LS192**	(3674)
♦ N74LS193	**Lansdale**	**SL74LS193**	(3674)
♦ N74LS194	Lansdale	SL74LS194	
♦ N74LS197	**Lansdale**	**SL74LS197**	(3674)
♦ N74LS20	**Lansdale**	**SL74LS20**	(3674)
♦ N74LS21	**Lansdale**	**SL74LS21**	(3674)
♦ N74LS240	**Lansdale**	**SL74LS240**	(3674)
			(Continued)
♦ N74LS241	**Lansdale**	**SL74LS241**	(3674)
♦ N74LS242	**Lansdale**	**SL74LS242**	(3674)
♦ N74LS243	**Lansdale**	**SL74LS243**	(3674)
		SL74LS244	(3674)
♦ N74LS245	**Lansdale**	**SL74LS245**	(3674)
♦ N74LS251	**Lansdale**	**SL74LS251**	(3674)
♦ N74LS253	**Lansdale**	**SL74LS253**	(3674)
♦ N74LS256	**Lansdale**	**SL74LS256**	(3674)
♦ N74LS257	Lansdale	SL74LS257	
♦ N74LS258	Lansdale	SL74LS258	
♦ N74LS259	**Lansdale**	**SL74LS259**	(3674)
♦ N74LS26	**Lansdale**	**SL74LS26**	(3674)
♦ N74LS260	Lansdale	SL74LS260	
♦ N74LS266	**Lansdale**	**SL74LS266**	(3674)
♦ N74LS27	**Lansdale**	**SL74LS27**	(3674)
♦ N74LS273	**Lansdale**	**SL74LS273**	(3674)
♦ N74LS283	**Lansdale**	**SL74LS283**	(3674)
♦ N74LS295	Lansdale	SL74LS295	
♦ N74LS298	**Lansdale**	**SL74LS298**	(3674)
♦ N74LS30	**Lansdale**	**SL74LS30**	(3674)
♦ N74LS301	**Lansdale**	**SL74LS301**	(3674)
♦ N74LS32	**Lansdale**	**SL74LS32**	(3674)
♦ N74LS33	**Lansdale**	**SL74LS33**	(3674)
♦ N74LS352	**Lansdale**	**SL74LS352**	(3674)
♦ N74LS353	**Lansdale**	**SL74LS353**	(3674)
♦ N74LS363	Lansdale	SL74LS363	
♦ N74LS364	Lansdale	SL74LS364	
♦ N74LS365	Lansdale	SL74LS365	
♦ N74LS366	Lansdale	SL74LS366	
♦ N74LS367	Lansdale	SL74LS367	
♦ N74LS368	Lansdale	SL74LS368	
♦ N74LS37	**Lansdale**	**SL74LS37**	(3674)
♦ N74LS373	**Lansdale**	**SL74LS373**	(3674)
♦ N74LS374	**Lansdale**	**SL74LS374**	(3674)
♦ N74LS375	**Lansdale**	**SL74LS375**	(3674)
♦ N74LS377	**Lansdale**	**SL74LS377**	(3674)
♦ N74LS378	**Lansdale**	**SL74LS378**	(3674)
♦ N74LS38	**Lansdale**	**SL74LS38**	(3674)
♦ N74LS390	**Lansdale**	**SL74LS390**	(3674)
♦ N74LS393	**Lansdale**	**SL74LS393**	(3674)
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♦ N74LS40	Lansdale	SL74LS40	
♦ N74LS42	Lansdale	SL74LS42	
♦ N74LS445	Lansdale	SL74LS445	
♦ N74LS490	**Lansdale**	**SL74LS490**	(3674)
♦ N74LS51	**Lansdale**	**SL74LS51**	(3674)
♦ N74LS533	**Lansdale**	**SL74LS533**	(3674)
♦ N74LS534	**Lansdale**	**SL74LS534**	(3674)
♦ N74LS54	**Lansdale**	**SL74LS54**	(3674)
♦ N74LS540	**Lansdale**	**SL74LS540**	(3674)
♦ N74LS541	**Lansdale**	**SL74LS541**	(3674)
♦ N74LS569	Lansdale	SL74LS569	
♦ N74LS620	**Lansdale**	**SL74LS620**	(3674)
♦ N74LS621	**Lansdale**	**SL74LS621**	(3674)
♦ N74LS622	**Lansdale**	**SL74LS622**	(3674)
♦ N74LS623	**Lansdale**	**SL74LS623**	(3674)
♦ N74LS640	**Lansdale**	**SL74LS640**	(3674)
♦ N74LS641	**Lansdale**	**SL74LS641**	(3674)
♦ N74LS642	**Lansdale**	**SL74LS642**	(3674)
♦ N74LS645	**Lansdale**	**SL74LS645**	(3674)
♦ N74LS670	**Lansdale**	**SL74LS670**	(3674)
♦ N74LS73	**Lansdale**	**SL74LS73**	(3674)
♦ N74LS74	Lansdale	SL74LS74	
♦ N74LS75	**Lansdale**	**SL74LS75**	(3674)
♦ N74LS76	**Lansdale**	**SL74LS76**	(3674)
♦ N74LS83	Lansdale	SL74LS83	
♦ N74LS85	**Lansdale**	**SL74LS85**	(3674)
♦ N74LS86	**Lansdale**	**SL74LS86**	(3674)
♦ N74LS90	**Lansdale**	**SL74LS90**	(3674)
♦ N74LS92	**Lansdale**	**SL74LS92**	(3674)
♦ N74LS93	**Lansdale**	**SL74LS93**	(3674)
♦ N74LS95	Lansdale	SL74LS95	
♦ N74LS96	**Lansdale**	**SL74LS96**	(3674)
♦ N74S00	**Lansdale**	**SL74S00**	(3675)
♦ N74S02	**Lansdale**	**SL74S02**	(3675)
♦ N74S04	**Lansdale**	**SL74S03**	(3675)
		SL74S04	(3675)
♦ N74S05	**Lansdale**	**SL74LS05**	(3674)
		SL74S05	(3675)
♦ N74S08	**Lansdale**	**SL74S08**	(3675)
♦ N74S10	**Lansdale**	**SL74S10**	(3675)
♦ N74S11	**Lansdale**	**SL74S11**	(3675)
♦ N74S112	**Lansdale**	**SL74S112**	(3675)
♦ N74S113	Lansdale	SL74S113	
♦ N74S133	**Lansdale**	**SL74S133**	(3675)
♦ N74S134	**Lansdale**	**SL74S134**	(3675)
♦ N74S135	Lansdale	SL74S135	
♦ N74S138	**Lansdale**	**SL74S138**	(3675)
♦ N74S139	**Lansdale**	**SL74S139**	(3675)
♦ N74S140	**Lansdale**	**SL74S140**	(3675)
♦ N74S151	**Lansdale**	**SL74S151**	(3675)
♦ N74S153	**Lansdale**	**SL74S153**	(3675)
♦ N74S157	**Lansdale**	**SL74S157**	(3675)
			(Continued)
♦ N74S158	**Lansdale**	**SL74S158**	(3675)
♦ N74S168	Lansdale	SL74S168	
♦ N74S168A	Lansdale	SL74S168A	
♦ N74S169	Lansdale	SL74S169	
♦ N74S169A	Lansdale	SL74S169A	
♦ N74S172	Lansdale	SL74S172	
♦ N74S174	**Lansdale**	**SL74S174**	(3675)
♦ N74S175	**Lansdale**	**SL74S175**	(3675)
♦ N74S181	**Lansdale**	**SL74S181**	(3675)
♦ N74S182	Lansdale	SL74S182	
N74S189	Cypress	CY74S189	
♦ N74S189	**Lansdale**	**SL74S189**	(3675)
♦ N74S194	**Lansdale**	**SL74S194**	(3675)
♦ N74S195	**Lansdale**	**SL74S195**	(3675)
♦ N74S20	**Lansdale**	**SL74S20**	(3675)
♦ N74S225	**Lansdale**	**SL74S225**	(3675)
♦ N74S240	**Lansdale**	**SL74S240**	(3675)
♦ N74S241	**Lansdale**	**SL74S241**	(3675)
♦ N74S242	Lansdale	SL74S242	
♦ N74S243	Lansdale	SL74S243	
♦ N74S244	**Lansdale**	**SL74S244**	(3675)
♦ N74S251	**Lansdale**	**SL74S251**	(3675)
♦ N74S253	**Lansdale**	**SL74S253**	(3675)
♦ N74S258	**Lansdale**	**SL74S258**	(3675)
♦ N74S260	**Lansdale**	**SL74S260**	(3675)
♦ N74S273	**Lansdale**	**SL74S273**	(3675)
♦ N74S280	**Lansdale**	**SL74S280**	(3675)
♦ N74S301	**Lansdale**	**SL74S301**	(3675)
♦ N74S32	**Lansdale**	**SL74S32**	(3675)
♦ N74S350	Lansdale	SL74S350	
♦ N74S37	**Lansdale**	**SL74S37**	(3675)
♦ N74S373	**Lansdale**	**SL74S373**	(3675)
♦ N74S374	**Lansdale**	**SL74S374**	(3675)
♦ N74S38	**Lansdale**	**SL74S38**	(3675)
♦ N74S40	**Lansdale**	**SL74S40**	(3675)
♦ N74S51	**Lansdale**	**SL74S51**	(3675)
♦ N74S534	**Lansdale**	**SL74S534**	(3675)
♦ N74S64	**Lansdale**	**SL74S64**	(3675)
♦ N74S74	**Lansdale**	**SL74S74**	(3675)
♦ N74S85	**Lansdale**	**SL74S85**	(3675)
♦ N74S86	**Lansdale**	**SL74S86**	(3675)
♦ N7400	**Lansdale**	**ML7400**	(3668)
		SL7400	
♦ N7401	**Lansdale**	**ML7401**	(3668)
		SL7401	
♦ N7402	**Lansdale**	**ML7402**	(3668)
		SL7402	
♦ N7403	**Lansdale**	**ML7403**	(3668)
		SL7403	
♦ N7404	**Lansdale**	**ML7404**	(3668)
		SL7404	
♦ N7405	**Lansdale**	**ML7405**	(3668)
		SL7405	
♦ N7406	**Lansdale**	**ML7406**	(3668)
		SL7406	
♦ N7407	**Lansdale**	**ML7407**	(3668)
		SL7407	
♦ N7408	**Lansdale**	**ML7408**	(3668)
		SL7408	
♦ N7409	**Lansdale**	**ML7409**	(3668)
		SL7409	
♦ N7410	**Lansdale**	**ML7410**	(3668)
		SL7410	
♦ N74100	**Lansdale**	**ML74100**	(3669)
		SL74100	
♦ N74107	**Lansdale**	**ML74107**	(3669)
		SL74107	
♦ N74109	Lansdale	SL74109	
♦ N7411	Lansdale	SL7411	
♦ N74116	Lansdale	SL74116	
♦ N74121	**Lansdale**	**ML74121**	(3669)
		SL74121	
♦ N74123	**Lansdale**	**ML74123**	(3669)
		SL74123	
♦ N74125	Lansdale	SL74125	
♦ N74126	Lansdale	SL74126	
♦ N74128	Lansdale	SL74128	
♦ N7413	**Lansdale**	**ML7413**	(3668)
		SL7413	
♦ N74132	Lansdale	SL74132	
♦ N7414	Lansdale	SL7414	
♦ N74141	Lansdale	ML74141	
♦ N74145	Lansdale	ML74145	
		SL74145	
♦ N74148	Lansdale	SL74148	
♦ N74150	**Lansdale**	**ML74150**	(3669)
		SL74150	
♦ N74151	**Lansdale**	**ML74151**	(3669)
		SL74151	
♦ N74152	**Lansdale**	**ML74152**	(3669)
		SL74152	
♦ N74153	**Lansdale**	**ML74153**	(3669)
		SL74153	
			(Continued)

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♦ N74154	**Lansdale**	**ML74154**	**(3669)**
		SL74154	
♦ N74155	**Lansdale**	**ML74155**	**(3669)**
		SL74155	
♦ N74156	Lansdale	SL74156	
♦ N74157	Lansdale	SL74157	
♦ N74158	Lansdale	SL74158	
♦ N7416	**Lansdale**	**ML7416**	**(3668)**
		SL7416	
♦ N74160	**Lansdale**	**ML74160**	**(3669)**
		SL74160	
♦ N74161	Lansdale	SL74161	
♦ N74162	**Lansdale**	**ML74162**	**(3669)**
♦ N74163	**Lansdale**	**ML74163**	**(3669)**
		SL74163	
♦ N74164	Lansdale	ML74164	
		SL74164	
♦ N74165	**Lansdale**	**ML74165**	**(3669)**
		SL74165	
♦ N74166	Lansdale	ML74166	
		SL74166	
♦ N7417	**Lansdale**	**ML7417**	**(3668)**
		SL7417	
♦ N74170	Lansdale	SL74170	
♦ N74173	Lansdale	SL74173	
♦ N74174	**Lansdale**	**ML74174**	**(3669)**
		SL74174	
♦ N74175	**Lansdale**	**ML74175**	**(3669)**
		SL74175	
♦ N74180	**Lansdale**	**ML74180**	**(3669)**
		SL74180	
♦ N74181	**Lansdale**	**ML74181**	**(3669)**
		SL74181	
♦ N74182	**Lansdale**	**ML74182**	**(3669)**
		SL74182	
N74190	**Lansdale**	**ML74190**	**(3669)**
		SL74190	
N74191	**Lansdale**	**ML74191**	**(3669)**
		SL74191	
N74192	**Lansdale**	**ML74192**	**(3669)**
		SL74192	
N74193	**Lansdale**	**ML74193**	**(3669)**
		SL74193	
N74194	Lansdale	SL74194	
N74195	**Lansdale**	**ML74195**	**(3669)**
		SL74195	
N74198	Lansdale	ML74198	
		SL74198	
N74199	Lansdale	ML74199	
		SL74199	
N7420	**Lansdale**	**ML7420**	**(3668)**
		SL7420	
N7421	Lansdale	SL7421	
N74221	Lansdale	SL74221	
N7425	Lansdale	SL7425	
N7426	**Lansdale**	**ML7426**	**(3668)**
		SL7426	
N7427	Lansdale	SL7427	
N74279	Lansdale	SL74279	
N7428	Lansdale	SL7428	
N74298	Lansdale	SL74298	
N7430	**Lansdale**	**ML7430**	**(3668)**
		SL7430	
N7432	Lansdale	SL7432	
N7433	Lansdale	SL7433	
N74365A	Lansdale	SL74365A	
N74366A	Lansdale	SL74366A	
N74367A	Lansdale	SL74367A	
N74368A	Lansdale	SL74368A	
N7437	**Lansdale**	**ML7437**	**(3668)**
		SL7437	
N7438	**Lansdale**	**ML7438**	**(3668)**
		SL7438	
N7439	Lansdale	SL7439	
N7440	**Lansdale**	**ML7440**	**(3668)**
		SL7440	
N7441	Lansdale	ML7441A	
N7442	**Lansdale**	**ML7442**	**(3668)**
		SL7442	
N7443	**Lansdale**	**ML7443**	**(3668)**
N7444	**Lansdale**	**ML7444**	**(3668)**
N7445	Lansdale	ML7445	
		SL7445	
N7446	Lansdale	ML7446	
N7447	Lansdale	ML7447	
		SL7447	
N7448	Lansdale	ML7448	
		SL7448	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ N7450	**Lansdale**	**ML7450**	**(3668)**
		SL7450	
♦ N7451	**Lansdale**	**ML7451**	**(3668)**
		SL7451	
♦ N7453	**Lansdale**	**ML7453**	**(3668)**
		SL7453	
♦ N7454	**Lansdale**	**ML7454**	**(3668)**
		SL7454	
♦ N7460	Lansdale	ML7460	
		SL7460	
♦ N7470	**Lansdale**	**ML7470**	**(3668)**
		SL7470	
♦ N7472	**Lansdale**	**ML7472**	**(3668)**
		SL7472	
♦ N7473	**Lansdale**	**ML7473**	**(3668)**
		SL7473	
♦ N7474	**Lansdale**	**ML7474**	**(3668)**
		SL7474	
♦ N7475	**Lansdale**	**ML7475**	**(3668)**
		SL7475	
♦ N7476	**Lansdale**	**ML7476**	**(3668)**
		SL7476	
♦ N7480	**Lansdale**	**ML7480**	**(3668)**
		SL7480	
♦ N7483	**Lansdale**	**ML7483**	**(3668)**
		SL7483	
♦ N7485	Lansdale	SL7485	
♦ N7486	**Lansdale**	**ML7486**	**(3669)**
		SL7486	
♦ N7490	Lansdale	ML7490	
		SL7490	
♦ N7491	**Lansdale**	**ML7491A**	**(3669)**
♦ N7492	Lansdale	ML7492	
		SL7492	
♦ N7493	Lansdale	ML7493	
		SL7493	
♦ N7494	Lansdale	SL7494	
♦ N7495	Lansdale	ML7495	
		SL7495	
♦ N7496	**Lansdale**	**ML7496**	**(3669)**
		SL7496	
N8T129	National	DS75129	
N8T13	National	DS75121	
N8T15	Motorola	MC1488	
	National	DS75150	
N8T16	Motorola	MC1489	
N8T23	National	DS75123	
N8T24	National	DS75124	
N8T26	Motorola	MC8T26	
N8T28	Motorola	MC8T28	
	National	DS8T28	
N8T34	National	DS8834	
N8T37	Motorola	MC3437	
	National	DS8837	
N8T38	National	DS8838	
N8T380	National	DS8836	
N8T4	National	DS55122	
N8T95	Motorola	MC8T95	
N8T96	Motorola	MC8T96	
N8T97	Motorola	MC8T97	
N8T98	Motorola	MC8T98	
N8053	Intel	N8052	
N82HS1281	Fujitsu	MB71C46	
	Waferscale	WS57C51	
N82HS187	AMD	AM27S35	
		63RS881	
	Fujitsu	MB7232	
N82HS189	AMD	AM27S37	
		63RS881	
	Fujitsu	MB7232	
N82HS195	AMD	AM27S41	
N82HS197	AMD	AM27S45	
N82HS199	AMD	AM27S47	
N82HS321	AMD	AM27S43	
	Fujitsu	MB7142	
	Waferscale	WS57C43	
N82HS641	AMD	AM27S49	
	Cypress	CY7C263	
		CY7C264	
	Fujitsu	MB71C44	
		MB7144	
	Waferscale	WS57C49	
N82LS181	Cypress	CY7C282	
♦ N82LS181	Rochester	28L86A	
N82S115	AMD	AM27S31	
♦ N82S12	Rochester	18S030	
N82S123	AMD	AM27S19	
	Fujitsu	MB7112	
♦ N82S123	AMD	27S19	
		63S081	
♦ N82S123	Fujitsu	7112E	
	National	74S288	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ N82S123A	AMD	27S19A	
		63S081A	
♦ N82S123A	Fujitsu	7112H	
	National	74S288A	
N82S126	Fujitsu	MB7113	
♦ N82S126	AMD	27S20	
		63S140	
♦ N82S126	Fujitsu	7113	
	National	74S387	
♦ N82S126A	AMD	27S20A	
	National	74S387A	
N82S129	AMD	AM27S21	
	Fujitsu	MB7114	
♦ N82S129	AMD	27S21	
		63S141	
♦ N82S129	Fujitsu	7114	
	National	74S287	
♦ N82S129A	AMD	27S21A	
		63S141A	
♦ N82S129A	National	74S287A	
N82S130	Fujitsu	MB7115	
♦ N82S130	AMD	27S12	
		53S240	
♦ N82S130	Fujitsu	7115E	
	National	74S570	
♦ N82S130A	AMD	27S12A	
	Fujitsu	7115H	
	National	74S570A	
N82S131	AMD	AM27S13	
	Fujitsu	MB7116	
♦ N82S131	AMD	27S13	
		63S241	
♦ N82S131	Fujitsu	7116E	
	National	74S571	
♦ N82S131A	AMD	27S13A	
		63S241A	
♦ N82S131A	Fujitsu	7116H	
	National	74S571A	
N82S135	Fujitsu	MB7118	
♦ N82S135	AMD	63S281	
	Fujitsu	7118E	
	National	74LS471	
N82S137	AMD	AM27S33	
	Fujitsu	MB7122	
N82S141	AMD	AM27S31	
♦ N82S141A	AMD	27S31	
		63S485	
♦ N82S141A	National	74S474	
N82S147	AMD	AM27S29	
	Fujitsu	MB7124	
♦ N82S147A	AMD	27S29	
		63S481	
♦ N82S147A	Fujitsu	7124E	
	National	74S472	
♦ N82S147B	AMD	27S29A	
		63S481A	
♦ N82S147B	Fujitsu	7124H	
	National	74S472A	
N82S181	AMD	AM27S181	
		AM27S281	
	Cypress	CY7C281	
		CY7C282	
	Fujitsu	MB7132	
♦ N82S181	AMD	AM27S181	
		63S881	
♦ N82S181	Fujitsu	M87132	
	National	93Z451	
	Rochester	93Z451	
N82S181A	Cypress	CY7C281	
N82S185	AMD	AM27S185	
	Fujitsu	MB7128	
N82S191	AMD	AM27PS191	
		AM27S191	
		AM27S291	
	Cypress	CY7C291	
		CY7C291A	
		CY7C292	
		CY7C292A	
	Fujitsu	MB71A38	
		MB7138	
	Waferscale	WS57C191	
		WS57C291	
N82S191A	AMD	AM27S191	
		63S1681	
	Cypress	CY7C291A	
		CY7C292A	
	Fujitsu	MB7138H	
	National	93Z511	
	Waferscale	WS57C191	
N82S191C	AMD	AM27S191A	
N82S23	Fujitsu	MB7111	
♦ N82S23	AMD	27S18	
		63S080	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ N82S23	Fujitsu	7111E	
	National	74S188	
♦ N82S23A	Fujitsu	7111H	
	National	74S188	
♦ N82S25	AMD	AM27S02	
	National	DM74S289	
		93403	
♦ N82S25	TI	SN74S289	
N82S321	Fujitsu	MB7142	
N82S641	Waferscale	WS57C49	
♦ N82S641	Rochester	93Z665	
♦ N8200	Lansdale	ML7200	
♦ N8201	Lansdale	ML7201	
♦ N8202	Lansdale	ML7202	
♦ N8203	Lansdale	ML7203	
♦ N8233	Lansdale	ML7233	
♦ N8234	Lansdale	ML7234	
♦ N8235	Lansdale	ML7235	
♦ N8241	Lansdale	ML7241	
♦ N8242	Lansdale	ML7242	
♦ N8250	Lansdale	ML7250	
♦ N8251	Lansdale	ML7251	
♦ N8260	Lansdale	ML7260	
♦ N8261	Lansdale	ML7261	
♦ N8266	Lansdale	ML7266	
♦ N8267	Lansdale	ML7267	
♦ N8270	Lansdale	ML7270	
♦ N8271	Lansdale	ML7271	
♦ N8280	Lansdale	ML7280	
♦ N8281	Lansdale	ML7281	
♦ N8284	Lansdale	ML7284	
♦ N8285	Lansdale	ML7285	
♦ N8288	Lansdale	ML7288	
♦ N8290	Lansdale	ML7290	
♦ N8291	Lansdale	SL7291	
♦ N8455	**Lansdale**	**ML7440**	**(3668)**
♦ N8471	Lansdale	ML7412	
♦ N8806	Lansdale	ML7460	
		SL7460	
♦ N8808	**Lansdale**	**ML7430**	**(3668)**
♦ N8824	**Lansdale**	**ML7474**	**(3668)**
♦ N8825	**Lansdale**	**ML7470**	**(3668)**
		SL7470	
♦ N8828	**Lansdale**	**ML7479**	**(3668)**
♦ N8829	**Lansdale**	**ML7472**	**(3668)**
		SL7472	
♦ N8840	**Lansdale**	**ML7450**	**(3668)**
♦ N8848	**Lansdale**	**ML7453**	**(3668)**
		SL7453	
♦ N8875	**Lansdale**	**ML7427**	**(3668)**
PCA5000	GEC Plessey	MV6639	
PCD3310	UMC	UM91310	
PCD3311	GEC Plessey	MV5089	
PCD5101	Sharp	LH5101	
PCD5114	Sharp	LH5114H	
PCF8582	Microchip	PCD8582	
		PCD8582I	
♦ PC74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
♦ PC74HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
♦ PC74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
PC74HC7030	GEC Plessey	MV66030	
PHD16N8	Lattice	GAL16V8	
		GAL18V10	
PHD16N8-5	TI	TIBPAD16N8-7C	
PLC153	**American Micro**	**PEEL153**	**(3503)**
PLC16V8	TI	EP330	
PLC18V8	ATMEL	AT18V8	
	TI	EP330	
PLC20V8	TI	TICPAL22V10	
PLC415	ATMEL	ATS415	
PLC42VA12	ATMEL	ATS42VA12	
PLHS16L8	Intel	85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
PLHS18P8	AMD	AMPAL18P8	
	American Micro	**PEEL18CV8**	**(3503)**
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
		GAL18V10	
PLQ22V10	ATMEL	AT22V10	
PLS105	TI	TIB82S105	
PLS153	**American Micro**	**PEEL153**	**(3503)**
	Lattice	GAL16V8	
		GAL18V10	
PLS167	TI	TIB82S167	
PLS173	American Micro	PEEL173	
PLS22V10A	ICT	PEEL22CV10A	
PLUS105	TI	TIB82S105	
PLUS16L8	AMD	PAL16L8	
	Intel	85C220	
		85C508	
	Lattice	GAL16V8	
	TI	TIBPAL16L8	
PLUS16L8D	AMD	PAL16L8D	
	TI	TIBPAL16L8-10C	
PLUS16R4	AMD	PAL16R4	
	Intel	85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16R4	
PLUS16R4-7N	AMD	PAL16R4	
	TI	TIBPAL16R4-7C	
PLUS16R4D	AMD	PAL16R4D	
	TI	TIBPAL16R4-10C	
PLUS16R6	AMD	PAL16R6	
	Intel	85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16R6	
PLUS16R6-7	AMD	PAL16R6-7	
	TI	TIBPAL16R6-7C	
PLUS16R6D	AMD	PAL16R6D	
	TI	TIBPAL16R6-10C	
PLUS16R8	AMD	PAL16R8	
	Intel	85C220	
	Lattice	GAL16V8	
	TI	TIBPAL16R6	
PLUS16R8-7	AMD	PAL16R8-7	
	TI	TIBPAL16R8-7C	
PLUS16R8D	AMD	PAL16R8D	
	TI	TIBPAL16R8-10C	
PLUS20L8	Intel	85C224	
		85C508	
	Lattice	GAL20V8	
	TI	TIBPAL20L8	
PLUS20L8-7	AMD	PAL20L8-7	
	TI	TIBPAL20L8-7C	
PLUS20L8-7A	AMD	PAL20L8-7JC	
	TI	TIBPAL20L8-7FN	
PLUS20L8D	AMD	PAL20L8-10	
	TI	TIBPAL20L8-10C	
PLUS20R4	AMD	PAL20R4	
	Intel	85C224	
	Lattice	GAL20V8	
	TI	TIBPAL20R4	
PLUS20R4-7	AMD	PAL20R4-7	
	TI	TIBPAL20R4-7C	
PLUS20R4D	AMD	PAL20R4-10	
	TI	TIBPAL20R4-10C	
PLUS20R6	AMD	PAL20R6	
	Intel	85C224	
	Lattice	GAL20V8	
	TI	TIBPAL20R6	
PLUS20R6-7	AMD	PAL20R6-7	
	TI	TIBPAL20R6-7C	
PLUS20R6D	AMD	AM20R6-10	
	TI	TIBPAL20R6-10C	
PLUS20R8	AMD	PAL20R8	
	Intel	85C224	
	Lattice	GAL20V8	
	TI	TIBPAL20R8	
PLUS20R8-7	AMD	PAL20R8-7	
	TI	TIBPAL20R8-7C	
PLUS20R8D	AMD	PAL20R8-10	
	TI	TIBPAL20R8-10C	
PLUS20R8DN	AMD	PAL20R8-10PC	
	TI	TIBPAL20R8-10CN	
PL22V10	ATMEL	AT22V10	
PML2552	ATMEL	ATS2552	
P80C32	Intel	80C32FA	
P80C52	Intel	83C51FA	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SAA1027	Allegro Micro	UCN5804	
SAA1710	GEC Plessey	MV1710	
SAA1720	GEC Plessey	MV1720	
SAA3004	GEC Plessey	MV500	
SAA3006	GEC Plessey	MV500	
SAA3027	GEC Plessey	MV500	
SAA3028	GEC Plessey	MV500	
SAA5190	GEC Plessey	MV1815	
SAA5231	GEC Plessey	MV1815	
SAA5235	GEC Plessey	MV1815	
SAA5236	GEC Plessey	MV1815	
SAA5243	GEC Plessey	MV1815	
SAA5245	GEC Plessey	MV1815	
SAA5246	GEC Plessey	MV1815	
SAA9041	GEC Plessey	MV1815	
SAB1018	GEC Plessey	SP4653	
		SP4660	
SAB1164	GEC Plessey	SP4632	
		SP8755	
SAB1165	GEC Plessey	SP8755	
SAB1534	GEC Plessey	SP4780	
SA1034	GEC Plessey	SP8610	
SA1458	SGS-Thomson	MC1458	
SA1534	GEC Plessey	SP8610	
SA4558	SGS-Thomson	MC4558	
SA5230	Harris	CA5160	
SA532	AD	OP221	
	Motorola	LM258	
	National	LM258	
		LM2904	
	NEC	μPC258	
	SGS-Thomson	LM258	
		LM2904	
	TI	LM258	
SA534	AD	OP421	
	Motorola	LM2902	
	National	LM2902	
	SGS-Thomson	LM2902	
	TI	LM2902	
SA5534	**AD**	**SSM2134**	**(3529)**
SA555	TI	SA555	
		TLC555	
SA556	Harris	ICM7556	
	TI	SA556	
		TLC556	
SA594	Allegro Micro	UDN6118	
		UDQ6118	
SA600	Harris	HFA3600	
SA723	Harris	CA0723	
SA741	SGS-Thomson	μA741	
♦ SCB2677	Ideal Semi	ISCB2677	
♦ SCB2765	Ideal Semi	ISCB2675	
♦ SCB68154	**Lansdale**	**SL68154**	**(3675)**
♦ SCB68155	**Lansdale**	**SL68155**	**(3675)**
♦ SCB68172	**Lansdale**	**SL68172**	**(3675)**
♦ SCB68430	Lansdale	SL68430	
SCC2692	Exar	XR88C681	
SCC68692	Exar	XR68C681	
SCC80C31	Siemens	SAB80C31	
SCC80C32B	**Siemens**	**SABC501-L**	**(3767)**
SCC80C51	Siemens	SAB80C51	
SCC80C52	Siemens	SAB80C52	
SCC80C52B	**Siemens**	**SABC501-1R**	**(3767)**
SCN2651	SMC	COM2651	
SCN2661	Motorola	MC2661	
	SMC	COM2661	
SCN2672C4	Motorola	MC2672B3P	
		MC2672B4P	
SCN2674	SMC	CRT9007	
SCN2674BC4	Motorola	MC2674B3P	
		MC2674B4P	
SCN2675	SMC	CRT9041	
SCN2681	Exar	XR88C681	
	Motorola	MC2681	
SCN2692	Exar	XR88C681	
SCN68000	Krueger	68000	
SCN68681	Exar	XR68C681	
		XR88C681	
	Motorola	MC68681	
SCN8031	Intel	N8031	
		P8031	
	Krueger	8031	
	Siemens	SAB8031	
SCN8031H	Intel	8031AH	
	Siemens	SAB8031A	

Manufacturer Device	Replacement Source	Device	IC Master Page
SCN8032	Intel	N8032	
		P8032	
SCN8032H	Intel	8032AH	
	Siemens	SAB8032A	
SCN8039	Krueger	8039	
SCN8039H	Intel	8039L	
SCN8040H	Intel	8040AHL	
SCN8049H	Intel	8049AH	
SCN8050H	Intel	8050AH	
SCN8051	Intel	N8051	
		P8051	
	Siemens	SAB8051	
SCN8051A	Siemens	SAB8051A	
SCN8051H	Intel	8051AH	
	Siemens	SAB8051A	
SCN8052	Intel	D8052	
		N8052	
		P8052	
	Siemens	SAB8052	
SCN8052AH	Siemens	8052B	
SC68C94	Exar	XR88C684	
SC80C31	Intel	N80C31	
SC80C31B	AMD	80C31BH	
	Intel	80C31BH	
	Siemens	SAB80C31	
SC80C51	Intel	N80C51	
		P80C51	
SC87C51	Intel	D87C51	
		M87C51	
		N87C51	
		P87C51	
♦ SE101	Lansdale	SL101	
♦ SE102	Lansdale	SL102	
♦ SE105	Lansdale	SL105	
♦ SE106	Lansdale	SL106	
♦ SE110	Lansdale	SL110	
♦ SE111	Lansdale	SL111	
♦ SE112	Lansdale	SL112	
♦ SE113	Lansdale	SL113	
♦ SE115	Lansdale	SL115	
♦ SE116	Lansdale	SL116	
♦ SE124	Lansdale	SL124	
♦ SE125	Lansdale	SL125	
♦ SE150	Lansdale	SL150	
♦ SE155	Lansdale	SL155	
♦ SE156	Lansdale	SL156	
♦ SE157	Lansdale	SL157	
♦ SE160	Lansdale	SL160	
♦ SE161	Lansdale	SL161	
♦ SE162	Lansdale	SL162	
♦ SE170	Lansdale	SL170	
♦ SE180	Lansdale	SL180	
♦ SE181	Lansdale	SL181	
♦ SE415	Lansdale	SL415	
♦ SE416	Lansdale	SL416	
♦ SE417	Lansdale	SL417	
♦ SE440	Lansdale	SL440	
♦ SE455	Lansdale	SL455	
SE4558	AD	OP14	
♦ SE470	Lansdale	SL470	
♦ SE471	Lansdale	SL471	
♦ SE480	Lansdale	SL480	
♦ SE481	Lansdale	SL481	
♦ SE490	Lansdale	SL490	
♦ SE5034	Ideal Semi	ISE5034	
♦ SE5045	Ideal Semi	ISE5045	
♦ SE5060	Ideal Semi	ISE5060	
♦ SE511	Lansdale	SL511	
SE5118	National	DAC0830	
♦ SE5118	Ideal Semi	ISE5118	
♦ SE5150	Ideal Semi	ISE5150	
♦ SE5151	Ideal Semi	ISE5151	
♦ SE5152	Ideal Semi	ISE5152	
♦ SE526	Lansdale	SL526	
SE529	National	LM161	
SE530	AD	OP42	
♦ SE530	Ideal Semi	ISE530	
SE531	AD	OP42	
	Elantec	EHA2515	
	Motorola	MC1539	
SE532	AD	OP221	
	Harris	CA158	
	Motorola	LM158	
	National	LM158	
	SGS-Thomson	LM158	
	TI	LM158	
SE533	Motorola	MC1556	
SE537	Motorola	MC1556	
SE538	AD	OP42	
	Elantec	EHA2520	
♦ SE538	Ideal Semi	ISE538	
SE5410	National	DAC1020	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SE542	Ideal Semi	ISE542	
♦ SE544	Ideal Semi	ISE544	
SE550	Motorola	MC1723	
SE5512	AD	OP14	
SE5514	AD	OP11	
♦ SE5520	Ideal Semi	ISE5520	
SE5532	AD	OP270	
	Harris	HA5102	
	Raytheon	RM5532	
SE5534	AD	OP27	
	Exar	XR5534	
	Harris	HA5101	
		HA5135	
	LinearTech	LT1037	
		OP37	
	TI	SE5534	
SE5535	AD	OP271	
♦ SE5535	Ideal Semi	ISE5535	
SE5537	AMD	LF198	
	National	μA398	
		LF198	
		LF398	
SE5539	GEC Plessey	SL541	
	Harris	HA2539	
SE555	National	LM555	
	SGS-Thomson	SE558	
	TI	SE555	
		TLC555	
SE555FE	TI	SE555JG	
SE556	Harris	ICM7556	
	National	LM556	
	TI	SE556	
		TLC556	
SE556-1F	TI	SE556J	
SE5561	Motorola	MC35060	
SE564	Allegro Micro	SE564	
♦ SE565	Ideal Semi	ISE565	
SE566	National	LM566	
SE567	National	LM567	
♦ SE589	Ideal Semi	ISE589	
SE592	Motorola	SE592	
♦ SE616	Lansdale	SL616	
♦ SE620	Lansdale	SL620	
♦ SE629	Lansdale	SL629	
♦ SE631	Lansdale	SL631	
♦ SE659	Lansdale	SL659	
♦ SE670	Lansdale	SL670	
♦ SE680	Lansdale	SL680	
♦ SE690	Lansdale	SL690	
SG2524	Unitrode	UC2524	
SG3524	Allegro Micro	ULN3524	
	Exar	XR2524	
		XR3524	
	LinearTech	LT3524	
		SG3524	
	Linfinity Micro	SG3524	
	National	LM2524	
		LM3524	
	SGS-Thomson	SG3524	
	TI	SG3524	
	Unitrode	UC3524	
SG3526	Unitrode	UC1526	
		UC3526	
♦ SG3526	Ideal Semi	ISG3526	
♦ SL54LS10	Lansdale	SL54LS10	
♦ SL54123	Lansdale	SL54123	
♦ SL5447	Lansdale	ML5447	
		SL5447	
♦ SN74H10	Rochester	74H10	
♦ SP300	Lansdale	SL300	
♦ SP301	Lansdale	SL301	
♦ SP302	Lansdale	SL302	
♦ SP304	Lansdale	SL304	
♦ SP305	Lansdale	SL305	
♦ SP306	Lansdale	SL306	
♦ SP314	Lansdale	SL314	
♦ SP315	Lansdale	SL315	
♦ SP316	Lansdale	SL316	
♦ SP317	Lansdale	SL317	
♦ SP320	Lansdale	SL320	
♦ SP321	Lansdale	SL321	
♦ SP322	Lansdale	SL322	
♦ SP3271	Lansdale	SL3271	
♦ SP328	Lansdale	SL328	
♦ SP3280	Lansdale	SL3280	
♦ SP3281	Lansdale	SL3281	
♦ SP331	Lansdale	SL331	
♦ SP332	Lansdale	SL332	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SP333	Lansdale	SL333	
SP334	Lansdale	SL334	
SP337	Lansdale	SL337	
SP352	Lansdale	SL352	
SP356	Lansdale	SL356	
SP357	Lansdale	SL357	
SP358	Lansdale	SL358	
SP362	Lansdale	SL362	
SP363	Lansdale	SL363	
SP370	Lansdale	SL370	
SP374	Lansdale	SL374	
SP375	Lansdale	SL375	
SP377	Lansdale	SL377	
SP380	Lansdale	SL380	
SP381	Lansdale	SL381	
SP384	Lansdale	SL384	
SP387	Lansdale	SL387	
SP391	Lansdale	SL391	
S54H00	**Lansdale**	**ML54H00**	**(3669)**
		SL54H00	
S54H01	**Lansdale**	**ML54H01**	**(3669)**
		SL54H01	
S54H04	**Lansdale**	**ML54H04**	**(3669)**
S54H05	**Lansdale**	**ML54H05**	**(3669)**
S54H08	**Lansdale**	**ML54H08**	**(3669)**
		SL54H08	
S54H10	**Lansdale**	**ML54H10**	**(3669)**
		SL54H10	
S54H101	**Lansdale**	**ML54H101**	**(3669)**
		SL54H101	
S54H102	**Lansdale**	**ML54H102**	**(3669)**
		SL54H102	
S54H103	**Lansdale**	**ML54H103**	**(3669)**
		SL54H103	
S54H106	Lansdale	SL54H106	
S54H108	**Lansdale**	**ML54H108**	**(3669)**
		SL54H108	
S54H11	**Lansdale**	**ML54H11**	**(3669)**
		SL54H11	
S54H20	**Lansdale**	**ML54H20**	**(3669)**
		SL54H20	
S54H21	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
S54H22	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
S54H30	**Lansdale**	**ML54H30**	**(3669)**
		SL54H30	
S54H40	**Lansdale**	**ML54H40**	**(3669)**
		SL54H40	
S54H50	**Lansdale**	**ML54H50**	**(3669)**
S54H52	**Lansdale**	**ML54H52**	**(3669)**
		SL54H52	
S54H53	**Lansdale**	**ML54H53**	**(3669)**
		SL54H53	
S54H54	**Lansdale**	**ML54H54**	**(3669)**
		SL54H54	
S54H55	**Lansdale**	**ML54H55**	**(3669)**
		SL54H55	
S54H60	**Lansdale**	**ML54H60**	**(3669)**
		ML54H61	**(3669)**
		SL54H60	
		SL54H61	
S54H61	Lansdale	SL54H61	
S54H62	**Lansdale**	**ML54H62**	**(3669)**
		SL54H62	
S54H71	**Lansdale**	**ML54H71**	**(3669)**
		SL54H71	
S54H72	**Lansdale**	**ML54H72**	**(3669)**
		SL54H72	
S54H73	**Lansdale**	**ML54H73**	**(3669)**
		SL54H73	
S54H74	**Lansdale**	**ML54H74**	**(3669)**
		SL54H74	
S54H76	Lansdale	SL54H76	
S54LS00	Lansdale	SL54LS00	
S54LS01	Lansdale	SL54LS01	
S54LS02	Lansdale	SL54LS02	
S54LS04	Lansdale	SL54LS04	
S54LS05	Lansdale	SL54LS05	
S54LS08	Lansdale	SL54LS08	
S54LS09	Lansdale	SL54LS09	
S54LS107	Lansdale	SL54LS107	
S54LS109	Lansdale	SL54LS109	
S54LS11	Lansdale	SL54LS11	
S54LS112	Lansdale	SL54LS112	
S54LS113	Lansdale	SL54LS113	
S54LS125	Lansdale	SL54LS125	
S54LS126	Lansdale	SL54LS126	
S54LS13	Lansdale	SL54LS13	
♦ S54LS132	Lansdale	SL54LS132	
♦ S54LS136	Lansdale	SL54LS136	
♦ S54LS138	Lansdale	SL54LS138	
♦ S54LS14	Lansdale	SL54LS14	
♦ S54LS151	Lansdale	SL54LS151	
♦ S54LS153	Lansdale	SL54LS153	
♦ S54LS154	Lansdale	SL54LS154	
♦ S54LS155	Lansdale	SL54LS155	
♦ S54LS156	Lansdale	SL54LS156	
♦ S54LS157	Lansdale	SL54LS157	
♦ S54LS158	Lansdale	SL54LS158	
♦ S54LS160	Lansdale	SL54LS160	
♦ S54LS161	Lansdale	SL54LS161	
♦ S54LS162	Lansdale	SL54LS162	
♦ S54LS163	Lansdale	SL54LS163	
♦ S54LS164	Lansdale	SL54LS164	
♦ S54LS169	Lansdale	SL54LS169	
♦ S54LS170	Lansdale	SL54LS170	
♦ S54LS173	Lansdale	SL54LS173	
♦ S54LS174	Lansdale	SL54LS174	
♦ S54LS175	Lansdale	SL54LS175	
♦ S54LS181	Lansdale	SL54LS181	
♦ S54LS191	Lansdale	SL54LS191	
♦ S54LS192	Lansdale	SL54LS192	
♦ S54LS193	Lansdale	SL54LS193	
♦ S54LS194	Lansdale	SL54LS194	
♦ S54LS20	Lansdale	SL54LS20	
♦ S54LS21	Lansdale	SL54LS21	
♦ S54LS240	Lansdale	SL54LS240	
♦ S54LS241	Lansdale	SL54LS241	
♦ S54LS242	Lansdale	SL54LS242	
♦ S54LS243	Lansdale	SL54LS243	
♦ S54LS244	Lansdale	SL54LS244	
♦ S54LS245	Lansdale	SL54LS245	
♦ S54LS251	Lansdale	SL54LS251	
♦ S54LS253	Lansdale	SL54LS253	
♦ S54LS256	Lansdale	SL54LS256	
♦ S54LS257	Lansdale	SL54LS257	
♦ S54LS258	Lansdale	SL54LS258	
♦ S54LS259	Lansdale	SL54LS259	
♦ S54LS26	Lansdale	SL54LS26	
♦ S54LS260	Lansdale	SL54LS260	
♦ S54LS266	Lansdale	SL54LS266	
♦ S54LS27	Lansdale	SL54LS27	
♦ S54LS273	Lansdale	SL54LS273	
♦ S54LS283	Lansdale	SL54LS283	
♦ S54LS295	Lansdale	SL54LS295	
♦ S54LS298	Lansdale	SL54LS298	
♦ S54LS30	Lansdale	SL54LS30	
♦ S54LS301	Lansdale	SL54LS301	
♦ S54LS32	Lansdale	SL54LS32	
♦ S54LS33	Lansdale	SL54LS33	
♦ S54LS352	Lansdale	SL54LS352	
♦ S54LS353	Lansdale	SL54LS353	
♦ S54LS363	Lansdale	SL54LS363	
♦ S54LS364	Lansdale	SL54LS364	
♦ S54LS365	Lansdale	SL54LS365	
♦ S54LS366	Lansdale	SL54LS366	
♦ S54LS367	Lansdale	SL54LS367	
♦ S54LS368	Lansdale	SL54LS368	
♦ S54LS37	Lansdale	SL54LS37	
♦ S54LS373	Lansdale	SL54LS373	
♦ S54LS374	Lansdale	SL54LS374	
♦ S54LS375	Lansdale	SL54LS375	
♦ S54LS377	Lansdale	SL54LS377	
♦ S54LS378	Lansdale	SL54LS378	
♦ S54LS38	Lansdale	SL54LS38	
♦ S54LS390	Lansdale	SL54LS390	
♦ S54LS393	Lansdale	SL54LS393	
♦ S54LS395	Lansdale	SL54LS395	
♦ S54LS40	Lansdale	SL54LS40	
♦ S54LS42	Lansdale	SL54LS42	
♦ S54LS445	Lansdale	SL54LS445	
♦ S54LS490	**Lansdale**	**SL54LS490**	**(3674)**
♦ S54LS51	Lansdale	SL54LS51	
♦ S54LS533	Lansdale	SL54LS533	
♦ S54LS534	Lansdale	SL54LS534	
♦ S54LS54	Lansdale	SL54LS54	
♦ S54LS540	**Lansdale**	**SL54LS540**	**(3674)**
♦ S54LS541	**Lansdale**	**SL54LS541**	**(3674)**
♦ S54LS569	Lansdale	SL54LS569	
♦ S54LS620	**Lansdale**	**SL54LS620**	**(3674)**
♦ S54LS621	**Lansdale**	**SL54LS621**	**(3674)**
♦ S54LS622	**Lansdale**	**SL54LS622**	**(3674)**
♦ S54LS623	**Lansdale**	**SL54LS623**	**(3674)**
♦ S54LS640	**Lansdale**	**SL54LS640**	**(3674)**
♦ S54LS641	Lansdale	SL54LS641	
♦ S54LS642	**Lansdale**	**SL54LS642**	**(3674)**
♦ S54LS645	**Lansdale**	**SL54LS645**	**(3674)**
♦ S54LS670	**Lansdale**	**SL54LS670**	**(3674)**
♦ S54LS73	Lansdale	SL54LS73	
♦ S54LS74A	Lansdale	SL54LS74A	
♦ S54LS75	Lansdale	SL54LS75	
♦ S54LS76	Lansdale	SL54LS76	
♦ S54LS83A	Lansdale	SL54LS83A	
♦ S54LS85	Lansdale	SL54LS85	
♦ S54LS86	Lansdale	SL54LS86	
♦ S54LS90	Lansdale	SL54LS90	
♦ S54LS92	Lansdale	SL54LS92	
♦ S54LS93	Lansdale	SL54LS93	
♦ S54LS95	Lansdale	SL54LS95	
♦ S54LS96	Lansdale	SL54LS96	
♦ S54S00	**Lansdale**	**SL54S00**	**(3674)**
♦ S54S02	**Lansdale**	**SL54S02**	**(3674)**
♦ S54S03	**Lansdale**	**SL54S03**	**(3674)**
♦ S54S04	**Lansdale**	**SL54S04**	**(3674)**
♦ S54S05	**Lansdale**	**SL54S05**	**(3674)**
♦ S54S08	**Lansdale**	**SL54S08**	**(3674)**
♦ S54S10	**Lansdale**	**SL54S10**	**(3674)**
♦ S54S11	**Lansdale**	**SL54S11**	**(3674)**
♦ S54S112	**Lansdale**	**SL54S112**	**(3674)**
♦ S54S113	Lansdale	SL54S113	
♦ S54S133	**Lansdale**	**SL54S133**	**(3674)**
♦ S54S134	Lansdale	SL54S134	
♦ S54S135	Lansdale	SL54S135	
♦ S54S138	**Lansdale**	**SL54S138**	**(3674)**
♦ S54S139	**Lansdale**	**SL54S139**	**(3674)**
♦ S54S140	**Lansdale**	**SL54S140**	**(3674)**
♦ S54S151	**Lansdale**	**SL54S151**	**(3674)**
♦ S54S153	**Lansdale**	**SL54S153**	**(3674)**
♦ S54S157	**Lansdale**	**SL54S157**	**(3674)**
♦ S54S158	**Lansdale**	**SL54S158**	**(3674)**
♦ S54S168	Lansdale	SL54S168	
♦ S54S168A	Lansdale	SL54S168A	
♦ S54S169	Lansdale	SL54S169	
♦ S54S169A	Lansdale	SL54S169A	
♦ S54S172	Lansdale	SL54S172	
♦ S54S174	**Lansdale**	**SL54S174**	**(3674)**
♦ S54S175	**Lansdale**	**SL54S175**	**(3674)**
♦ S54S181	**Lansdale**	**SL54S181**	**(3674)**
♦ S54S182	Lansdale	SL54S182	
S54S189	Cypress	CY54S189	
♦ S54S189	**Lansdale**	**SL54S189**	**(3674)**
♦ S54S194	**Lansdale**	**SL54S194**	**(3674)**
♦ S54S195	**Lansdale**	**SL54S195**	**(3674)**
♦ S54S20	**Lansdale**	**SL54S20**	**(3674)**
♦ S54S225	**Lansdale**	**SL54S225**	**(3674)**
♦ S54S240	**Lansdale**	**SL54S240**	**(3674)**
♦ S54S241	**Lansdale**	**SL54S241**	**(3674)**
♦ S54S242	Lansdale	SL54S242	
♦ S54S243	Lansdale	SL54S243	
♦ S54S244	**Lansdale**	**SL54S244**	**(3674)**
♦ S54S251	**Lansdale**	**SL54S251**	**(3674)**
♦ S54S253	**Lansdale**	**SL54S253**	**(3674)**
♦ S54S257	**Lansdale**	**SL54S257**	**(3674)**
♦ S54S258	**Lansdale**	**SL54S258**	**(3674)**
♦ S54S260	**Lansdale**	**SL54S260**	**(3674)**
♦ S54S273	**Lansdale**	**SL54S273**	**(3674)**
♦ S54S280	**Lansdale**	**SL54S280**	**(3674)**
♦ S54S301	**Lansdale**	**SL54S301**	**(3674)**
♦ S54S32	**Lansdale**	**SL54S32**	**(3674)**
♦ S54S350	Lansdale	SL54S350	
♦ S54S37	**Lansdale**	**SL54S37**	**(3674)**
♦ S54S373	**Lansdale**	**SL54S373**	**(3674)**
♦ S54S374	**Lansdale**	**SL54S374**	**(3674)**
♦ S54S38	**Lansdale**	**SL54S38**	**(3674)**
♦ S54S40	**Lansdale**	**SL54S40**	**(3674)**
♦ S54S51	**Lansdale**	**SL54S51**	**(3674)**
♦ S54S534	**Lansdale**	**SL54S534**	**(3674)**
♦ S54S64	**Lansdale**	**SL54S64**	**(3674)**
♦ S54S74	**Lansdale**	**SL54S74**	**(3674)**
♦ S54S85	**Lansdale**	**SL54S85**	**(3674)**
♦ S54S86	**Lansdale**	**SL54S86**	**(3674)**
♦ S5400	**Lansdale**	**ML5400**	**(3668)**
♦ S5401	**Lansdale**	**ML5401**	**(3668)**
		SL5401	
♦ S5402	**Lansdale**	**ML5402**	**(3668)**
		SL5402	
♦ S5403	**Lansdale**	**ML5403**	**(3668)**
		SL5403	
♦ S5404	**Lansdale**	**ML5404**	**(3668)**
		SL5404	
♦ S5405	**Lansdale**	**ML5405**	**(3668)**
		SL5405	
♦ S5406	**Lansdale**	**ML5406**	**(3668)**
		SL5406	
♦ S5407	**Lansdale**	**ML5407**	**(3668)**
		SL5407	
♦ S5408	**Lansdale**	**ML5408**	**(3668)**
		SL5408	
♦ S5409	**Lansdale**	**ML5409**	**(3668)**
		SL5409	
♦ S5410	**Lansdale**	**ML5410**	**(3668)**
		SL5410	
♦ S54100	**Lansdale**	**ML54100**	**(3668)**
		SL54100	
♦ S54107	**Lansdale**	**ML54107**	**(3668)**
		SL54107	
♦ S54109	Lansdale	SL54109	
♦ S5411	Lansdale	SL5411	
♦ S54116	Lansdale	SL54116	
♦ S54121	Lansdale	SL54121	
♦ S54125	Lansdale	SL54125	
♦ S54126	Lansdale	SL54126	
♦ S54128	Lansdale	SL54128	
♦ S5413	**Lansdale**	**ML5413**	**(3668)**
		SL5413	
♦ S54132	Lansdale	SL54132	
♦ S5414	Lansdale	SL5414	
♦ S54145	Lansdale	SL54145	
♦ S54148	Lansdale	SL54148	
♦ S54150	Lansdale	SL54150	
♦ S54151	Lansdale	SL54151	
♦ S54152	**Lansdale**	**ML54152**	**(3668)**
		SL54152	
♦ S54153	Lansdale	SL54153	
♦ S54154	Lansdale	SL54154	
♦ S54155	Lansdale	SL54155	
♦ S54156	Lansdale	SL54156	
		S54156	
♦ S54157	Lansdale	SL54157	
♦ S54158	Lansdale	SL54158	
♦ S5416	**Lansdale**	**ML5416**	**(3668)**
		SL5416	
♦ S54160	Lansdale	SL54160	
♦ S54161	Lansdale	SL54161	
♦ S54163	Lansdale	SL54163	
♦ S54164	Lansdale	SL54164	
♦ S54165	Lansdale	SL54165	
♦ S54166	Lansdale	SL54166	
♦ S5417	**Lansdale**	**ML5417**	**(3668)**
		SL5417	
♦ S54170	Lansdale	SL54170	
♦ S54173	Lansdale	SL54173	
♦ S54174	Lansdale	SL54174	
♦ S54175	Lansdale	SL54175	
♦ S54180	Lansdale	SL54180	
♦ S54181	Lansdale	SL54181	
♦ S54182	**Lansdale**	**ML54182**	**(3668)**
		SL54182	
♦ S54190	Lansdale	SL54190	
♦ S54191	Lansdale	SL54191	
♦ S54192	Lansdale	SL54192	
♦ S54193	Lansdale	SL54193	
♦ S54194	Lansdale	SL54194	
♦ S54195	Lansdale	SL54195	
♦ S54198	Lansdale	ML54198	
		SL54198	
♦ S54199	Lansdale	SL54199	
♦ S5420	**Lansdale**	**ML5420**	**(3668)**
		SL5420	
♦ S5421	Lansdale	SL5421	
♦ S54221	Lansdale	SL54221	
♦ S5425	Lansdale	SL5425	
♦ S5426	**Lansdale**	**ML5426**	**(3668)**
		SL5426	
♦ S5427	Lansdale	SL5427	
♦ S54279	Lansdale	SL54279	
♦ S5428	Lansdale	SL5428	
♦ S54298	Lansdale	SL54298	
♦ S5430	**Lansdale**	**ML5430**	**(3668)**
		SL5430	
♦ S5432	Lansdale	SL5432	
♦ S5433	Lansdale	SL5433	
♦ S54365A	Lansdale	SL54365A	
♦ S54366A	Lansdale	SL54366A	
♦ S54367A	Lansdale	SL54367A	
♦ S54368A	Lansdale	SL54368A	
♦ S5437	**Lansdale**	**ML5437**	**(3668)**
		SL5437	
♦ S5438	**Lansdale**	**ML5438**	**(3668)**
		SL5438	
♦ S5439	Lansdale	SL5439	
♦ S5440	**Lansdale**	**ML5440**	**(3668)**
		SL5440	
♦ S5441	Lansdale	ML5441A	
♦ S5442	**Lansdale**	**ML5442**	**(3668)**
		SL5442	
♦ S5443	**Lansdale**	**ML5443**	**(3668)**
♦ S5444	**Lansdale**	**ML5444**	**(3668)**
♦ S5445	Lansdale	ML5445	
		SL5445	
♦ S5447	Lansdale	SL5447	
♦ S5448	Lansdale	ML5448	
		SL5448	
♦ S5450	**Lansdale**	**ML5450**	**(3668)**
		SL5450	
♦ S5451	**Lansdale**	**ML5451**	**(3668)**
		SL5451	

(Continued)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ S5453	**Lansdale**	**ML5453**	**(3668)**
		SL5453	
♦ S5454	**Lansdale**	**ML5454**	**(3668)**
		SL5454	
♦ S5460	Lansdale	ML5460	
		SL5460	
♦ S5470	**Lansdale**	**ML5470**	**(3668)**
		SL5470	
♦ S5472	**Lansdale**	**ML5472**	**(3668)**
		SL5472	
♦ S5473	**Lansdale**	**ML5473**	**(3668)**
		SL5473	
♦ S5474	**Lansdale**	**ML5474**	**(3668)**
		SL5474	
♦ S5475	**Lansdale**	**ML5475**	**(3668)**
		SL5475	
♦ S5476	**Lansdale**	**ML5476**	**(3668)**
		SL5476	
♦ S5480	**Lansdale**	**ML5480**	**(3668)**
		SL5480	
♦ S5483	**Lansdale**	**ML5483**	**(3668)**
		SL5483	
♦ S5485	Lansdale	SL5485	
♦ S5486	**Lansdale**	**ML5486**	**(3668)**
		SL5486	
♦ S5490	Lansdale	ML5490	
		SL5490	
♦ S5491	**Lansdale**	**ML5491A**	**(3668)**
♦ S5492	Lansdale	ML5492	
		SL5492	
♦ S5493	Lansdale	ML5493	
		SL5493	
♦ S5494	Lansdale	SL5494	
♦ S5495	Lansdale	ML5495	
		SL5495	
♦ S5496	Lansdale	SL5496	
♦ S74S257	**Lansdale**	**SL74S257**	**(3675)**
♦ S74181	Lansdale	SL74181	
♦ S8H16	Lansdale	SL8H16	
♦ S8H20	Lansdale	SL8H20	
♦ S8H21	Lansdale	SL8H21	
♦ S8H22	Lansdale	SL8H22	
♦ S8H70	Lansdale	SL8H70	
♦ S8H80	Lansdale	SL8H80	
♦ S8T04	Lansdale	SL8T04	
♦ S8T05	Lansdale	SL8T05	
♦ S8T06	Lansdale	SL8T06	
♦ S8T09	**Lansdale**	**SL8T09**	**(3675)**
♦ S8T10	Lansdale	SL8T10	
♦ S8T125	Lansdale	SL8T125	
♦ S8T126	Lansdale	SL8T126	
♦ S8T129	Lansdale	SL8T129	
♦ S8T13	**Lansdale**	**SL8T13**	**(3675)**
♦ S8T14	Lansdale	SL8T14	
♦ S8T15	Lansdale	SL8T15	
♦ S8T16	Lansdale	SL8T16	
♦ S8T18	Lansdale	SL8T18	
♦ S8T20	Lansdale	SL8T20	
♦ S8T23	**Lansdale**	**SL8T23**	**(3675)**
♦ S8T24	Lansdale	SL8T24	
♦ S8T245	Lansdale	SL8T245	
♦ S8T26	Lansdale	SL8T26	
♦ S8T26A	Lansdale	SL8T26A	
♦ S8T28	Lansdale	SL8T28	
♦ S8T31	Lansdale	SL8T31	
♦ S8T32	Lansdale	SL8T32	
♦ S8T33	Lansdale	SL8T33	
♦ S8T34	**Lansdale**	**SL8T34**	**(3675)**
♦ S8T3404	Lansdale	SL8T3404	
♦ S8T35	Lansdale	SL8T35	
♦ S8T36	Lansdale	SL8T36	
♦ S8T37	**Lansdale**	**SL8T37**	**(3675)**
♦ S8T38	**Lansdale**	**SL8T38**	**(3675)**
♦ S8T380	Lansdale	SL8T380	
♦ S8T80	Lansdale	SL8T80	
♦ S8T90	Lansdale	SL8T90	
♦ S8T95	**Lansdale**	**SL8T95**	**(3675)**
♦ S8T96	Lansdale	SL8T96	
♦ S8T97	**Lansdale**	**SL8T97**	**(3675)**
♦ S8T98	**Lansdale**	**SL8T98**	**(3675)**
♦ S8162	Lansdale	SL8162	
S82HS641	Cypress	CY7C263	
		CY7C264	
♦ S82LS16	Lansdale	SL82LS16	
		SL82S16	
S82LS181	Cypress	CY7C282	
♦ S82LS181	Lansdale	SL82LS181	
♦ S82S09	Lansdale	SL82S09	
S82S181	Cypress	CY7C282	

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ S82S19	Lansdale	SL82S19	
S82S191	Cypress	CY7C291	
		CY7C292	
♦ S82S212	Lansdale	SL82S212	
S82S25	AMD	SN74S289	
♦ S82S25	Lansdale	SL82S25	
♦ S82S41	Lansdale	SL82S41	
♦ S82S52	Lansdale	SL82S52	
♦ S82S62	Lansdale	SL82S62	
♦ S82S82	Lansdale	SL82S82	
♦ S82S83	Lansdale	SL82S83	
♦ S8200	Lansdale	ML8200	
		SL8200	
♦ S8201	Lansdale	ML8201	
		SL8201	
♦ S8202	Lansdale	SL8202	
♦ S8203	Lansdale	ML8203	
		SL8203	
♦ S8230	Lansdale	SL8230	
♦ S8231	Lansdale	SL8231	
♦ S8232	Lansdale	SL8232	
♦ S8233	Lansdale	ML8233	
♦ S8234	Lansdale	ML8234	
		SL8234	
♦ S8235	Lansdale	ML8235	
		SL8235	
♦ S8241	Lansdale	ML8241	
		SL8241	
♦ S8242	Lansdale	ML8242	
		SL8242	
♦ S8243	Lansdale	SL8243	
♦ S8250	Lansdale	ML8250	
		SL8250	
♦ S8251	Lansdale	ML8251	
		SL8251	
♦ S8252	Lansdale	SL8252	
♦ S8260	Lansdale	ML8260	
		SL8260	
♦ S8261	Lansdale	ML8261	
		SL8261	
♦ S8262	Lansdale	SL8262	
♦ S8263	Lansdale	SL8263	
♦ S8264	Lansdale	SL8264	
♦ S8266	Lansdale	ML8266	
		SL8266	
♦ S8267	Lansdale	ML8267	
		SL8267	
♦ S8269	Lansdale	SL8269	
♦ S8270	Lansdale	ML8270	
		SL8270	
♦ S8271	Lansdale	ML8271	
		SL8271	
♦ S8273	Lansdale	SL8273	
♦ S8274	Lansdale	SL8274	
♦ S8275	Lansdale	SL8275	
♦ S8277	Lansdale	SL8277	
♦ S8280	Lansdale	ML8280	
		SL8280	
♦ S8281	Lansdale	ML8281	
		SL8281	
♦ S8284	Lansdale	ML8284	
		SL8284	
♦ S8285	Lansdale	ML8285	
		SL8285	
♦ S8288	Lansdale	ML8288	
		SL8288	
♦ S8290	Lansdale	ML8290	
		SL8290	
♦ S8291	Lansdale	ML8291	
		SL8291	
♦ S8292	Lansdale	SL8292	
♦ S8293	Lansdale	SL8293	
♦ S8415	Lansdale	SL8415	
♦ S8416	Lansdale	SL8416	
♦ S8417	Lansdale	SL8417	
♦ S8440	Lansdale	SL8440	
♦ S8455	Lansdale	SL8455	
♦ S8470	Lansdale	SL8470	
♦ S8471	Lansdale	SL8471	
♦ S8480	Lansdale	SL8480	
♦ S8481	Lansdale	SL8481	
♦ S8490	Lansdale	SL8490	
♦ S8803	Lansdale	SL8806	
♦ S8808	Lansdale	SL8808	
♦ S8815	Lansdale	SL8815	
♦ S8816	Lansdale	SL8816	
♦ S8819	Lansdale	SL8819	
♦ S8821	Lansdale	SL8821	
♦ S8822	Lansdale	SL8822	
♦ S8824	Lansdale	SL8824	
♦ S8825	Lansdale	SL8825	
♦ S8826	Lansdale	SL8826	
♦ S8827	Lansdale	SL8827	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ S8828	Lansdale	SL8828	
♦ S8829	Lansdale	SL8829	
♦ S8840	Lansdale	SL8840	
♦ S8848	Lansdale	SL8848	
♦ S8855	Lansdale	SL8855	
♦ S8859	Lansdale	SL8859	
♦ S8870	Lansdale	SL8870	
♦ S8875	Lansdale	SL8875	
♦ S8879	Lansdale	SL8879	
♦ S8880	Lansdale	SL8880	
♦ S8881	Lansdale	SL8881	
♦ S8885	Lansdale	SL8885	
♦ S8889	Lansdale	SL8889	
♦ S9309	Lansdale	SL9309	
♦ S9324	Lansdale	SL9324	
♦ S9334	Lansdale	SL9334	
♦ S9401	Lansdale	SL9401	
♦ S9403	Lansdale	SL9403	
♦ S9602	Lansdale	SL9602	
♦ S96106	Lansdale	SL96106	
TL0062MJ7B/C	TI	TL062JGB	
TSA5510	GEC Plessey	SP5510	
UAA2033	GEC Plessey	SL6639	
UA733/BCA	TI	UA733MJB	
UA733F	TI	UA733MJ	
UC2842	Motorola	UC2842	
UC2843	Motorola	UC2843	
UC2844	Motorola	UC2844	
UC2845	Motorola	UC2845	
UC3842	Allegro Micro	ULN8142	
	Micrel	**MIC38C42**	**(3685)**
		MIC38HC42	
	Motorola	UC3842	
		UC3842AN	
	National	UC3842	
	Unitrode	UC3842	
UC3843	Motorola	UC3843	
UC3844	Motorola	UC3844	
UC3845	Motorola	UC3845	
ULN2001	SGS-Thomson	ULN2001	
		ULQ2001	
ULN2002	SGS-Thomson	ULN2002	
		ULQ2002	
ULN2003	Allegro Micro	ULN2003	
	SGS-Thomson	ULN2003	
		ULQ2003	
ULN2004	Allegro Micro	ULN2004	
	SGS-Thomson	ULN2004	
		ULQ2004	
100101	**Synergy**	**SY100S301**	**(3806)**
100102	**Synergy**	**SY100S302**	**(3806)**
100104	**Synergy**	**SY100S304**	**(3806)**
100107	**Synergy**	**SY100S307**	**(3806)**
100113	**Synergy**	**SY100S313**	**(3806)**
100114	**Synergy**	**SY100S314**	**(3806)**
100117	**Synergy**	**SY100S317**	**(3806)**
100118	**Synergy**	**SY100S318**	**(3806)**
100122	**Synergy**	**SY100S322**	**(3806)**
100131	**Synergy**	**SY100S331**	**(3806)**
100136	**Synergy**	**SY100S336**	**(3806)**
100141	**Synergy**	**SY100S341**	**(3806)**
100150	**Synergy**	**SY100S350**	**(3806)**
100151	**Synergy**	**SY100S351**	**(3806)**
100155	**Synergy**	**SY100S355**	**(3806)**
100156	Synergy	SY100S356	
100160	**Synergy**	**SY100S360**	**(3806)**
100163	**Synergy**	**SY100S363**	**(3806)**
100164	**Synergy**	**SY100S364**	**(3806)**
100165	Synergy	SY100S365	
100166	**Synergy**	**SY100S366**	**(3806)**
100170	**Synergy**	**SY100S370**	**(3806)**
100171	**Synergy**	**SY100S371**	**(3806)**
100422	Cypress	CY100E422	
100474	Cypress	CY100E474	
♦ 10100	**Lansdale**	**SL10100**	**(3676)**
♦ 10101	**Lansdale**	**SL10101**	**(3676)**
♦ 10102	**Lansdale**	**SL10102**	**(3676)**
♦ 10103	**Lansdale**	**SL10103**	**(3676)**
♦ 10104	**Lansdale**	**SL10104**	**(3676)**
♦ 10105	**Lansdale**	**SL10105**	**(3676)**
♦ 10106	**Lansdale**	**SL10106**	**(3676)**
♦ 10107	**Lansdale**	**SL10107**	**(3676)**
♦ 10108	Lansdale	SL10108	
♦ 10109	**Lansdale**	**SL10109**	**(3676)**
♦ 10110	**Lansdale**	**SL10110**	**(3676)**

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♦ 10111	**Lansdale**	**SL10111**	**(3676)**
♦ 10113	**Lansdale**	**SL10113**	**(3676)**
♦ 101133	**Lansdale**	**SL10133**	**(3676)**
♦ 10114	**Lansdale**	**SL10114**	**(3676)**
♦ 10115	**Lansdale**	**SL10115**	**(3676)**
♦ 10116	**Lansdale**	**SL10116**	**(3676)**
♦ 10117	**Lansdale**	**SL10117**	**(3676)**
♦ 10118	**Lansdale**	**SL10118**	**(3676)**
♦ 10119	**Lansdale**	**SL10119**	**(3676)**
♦ 10121	**Lansdale**	**SL10121**	**(3676)**
♦ 10123	**Lansdale**	**SL10123**	**(3676)**
♦ 10124	**Lansdale**	**SL10124**	**(3676)**
♦ 10125	Lansdale	SL10125	
♦ 10129	**Lansdale**	**SL10129**	**(3676)**
♦ 10130	**Lansdale**	**SL10130**	**(3676)**
♦ 10131	**Lansdale**	**SL10131**	**(3676)**
♦ 10132	**Lansdale**	**SL10132**	**(3676)**
♦ 10134	**Lansdale**	**SL10134**	**(3676)**
♦ 10135	**Lansdale**	**SL10135**	**(3676)**
♦ 10136	**Lansdale**	**SL10136**	**(3676)**
♦ 10137	**Lansdale**	**SL10137**	**(3676)**
♦ 10141	**Lansdale**	**SL10141**	**(3676)**
♦ 10158	**Lansdale**	**SL10158**	**(3676)**
♦ 10159	Lansdale	SL10159	
♦ 10160	**Lansdale**	**SL10160**	**(3676)**
♦ 10161	**Lansdale**	**SL10161**	**(3676)**
♦ 10162	**Lansdale**	**SL10162**	**(3676)**
♦ 10164	**Lansdale**	**SL10164**	**(3676)**
♦ 10165	Lansdale	SL10165	
♦ 10171	**Lansdale**	**SL10171**	**(3676)**
♦ 10172	**Lansdale**	**SL10172**	**(3676)**
♦ 10173	**Lansdale**	**SL10173**	**(3676)**
♦ 10174	**Lansdale**	**SL10174**	**(3676)**
♦ 10175	**Lansdale**	**SL10175**	**(3676)**
♦ 10176	**Lansdale**	**SL10176**	**(3676)**
♦ 10179	**Lansdale**	**SL10179**	**(3676)**
♦ 10180	**Lansdale**	**SL10180**	**(3676)**
♦ 10181	**Lansdale**	**SL10181**	**(3676)**
♦ 10188	**Lansdale**	**SL10188**	**(3676)**
♦ 10189	**Lansdale**	**SL10189**	**(3676)**
♦ 10192	**Lansdale**	**SL10192**	**(3676)**
♦ 10210	**Lansdale**	**SL10210**	**(3676)**
♦ 10211	**Lansdale**	**SL10211**	**(3676)**
♦ 10216	**Lansdale**	**SL10216**	**(3676)**
♦ 10231	**Lansdale**	**SL10231**	**(3676)**
10422	Cypress	CY10E422	
10474	Cypress	CY10474	
2101	Hughes	H1822	
2168	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
2652	SMC	COM5025	
2690	Krueger	4116-120	
		4116-150	
		4116-200	
27C010	AMD	AM27C010	
27C128	Krueger	27C128-200	
		27C128-250	
27C210	AMD	AM27C1024	
	Krueger	27C210	
♦ 27C210-15	AMD	AM27C1024-155	
	Intel	D27210-150V10	
	NEC	µPD27C1024-15	
27C210-20	AMD	AM27C1024-200	
	Intel	D27210-200V10	
	NEC	µPD27C1024-20	
	TI	TMS27C210-200	
27C210A	NEC	µPD27C1024K-20	
27C210FA	AMD	AM27C1024-200D	
	Intel	D27210-200V10	
	NEC	µPD27C1024D-20	
	TI	TMS27C210-200JL	
27C256	AMD	AM27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	TI	SMJ27C256	
		TMS27C256	
	Waferscale	WS57C256	
♦ 27C256-12	AMD	AM27C256-120	
	Intel	27C256-120V05	
	TI	TMS27C256-120	
♦ 27C256-15	AMD	AM27C256-150	
	Intel	27C256-150	
	National	NMC27C256-150	
	NEC	µPD27C256-15	
	TI	TMS27PC256-150	
♦ 27C256-17	AMD	AM27C256-170	
	Intel	27C256-1	
	TI	TMS27PC256-1	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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♦ 27C256-20	Intel	27C256-200	
	National	NM27C256-200	
	NEC	µPD27C256-20	
	TI	TMS27C256	
27C256BXA-20			
	TI	SMJ27C256-20	
♦ 27C256I-15	AMD	AM27C256-150I	
	National	NM27C256E150	
♦ 27C256I-20	AMD	AM27C256-200I	
	Intel	T27C256-2	
	National	NM27C256E200	
	TI	TMS27C256-2E	
27C512	AMD	AM27C512	
	Waferscale	WS27C512	
♦ 27C512-12	AMD	AM27C512-120	
♦ 27C512-15	AMD	AM27C512-150	
	Intel	27C512	
	National	NM27C512-150	
	NEC	µPD27C512-15	
	TI	TMS27PC512-2	
♦ 27C512-17	AMD	AM27C512-170	
	Intel	27C512	
	National	NM27C512-170	
♦ 27C512-20	AMD	AM27C512-200	
	Intel	27C512	
	National	NMC27C512-200	
	NEC	µPD27C512-20	
	TI	TMS27PC512-2	
♦ 27C512I-20	AMD	AM27C512-200	
	National	NM27C512E200	
	TI	TMS27C512-2E	
27C5121-15A	AMD	AM27C512-15LI	
	National	NM27C512AVE150	
27C64	AMD	AM27C64	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
27C64-15	AMD	AM27C64-150	
	Intel	27C64	
	National	NM27C64-150	
	TI	TMS27C64-15	
♦ 27C64-20	Intel	P27C64-20	
♦ 27C64A-12	AMD	AM27C64-120	
♦ 27C64A-20	AMD	AM27C64-200	
	Intel	27C64-20	
	National	NM27C64-200	
	TI	TMS27C64-20	
27HC641	AMD	AM27C49	
	Cypress	CY7C263	
		CY7C264	
	Waferscale	WS57C49	
♦ 27HC641	Rochester	93Z667	
27HC642	Waferscale	WS57C49	
27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
48F010	TI	TMS29F010	
♦ 5147	Lansdale	SL5417	
54F00	Motorola	MC54F00	
	National	54F00	
	TI	SN54F00	
54F04	Motorola	MC54F04	
	National	54F04	
	TI	SN54F04	
54F139	Motorola	MC54F139	
	National	54F139	
54F157	Motorola	MC54F157	
		MC54F157A	
	National	54F157	
		54F157A	
	TI	SN54F157A	
54F158	Motorola	MC54F158	
		MC54F158A	
	National	54F158	
		54F158A	
	TI	SN54F158A	
54F181	Motorola	MC54F181	
	National	54F181	
54F20	Motorola	MC54F20	
	National	54F20	
	Rochester	54F20	
	TI	SN54F20	
54F240	Motorola	MC54F240	
	National	54F240	
	Rochester	54F240	
	TI	SN54F240	
54F241	Motorola	MC54F241	
	National	54F241	
	Rochester	54F241	
	TI	SN54F241	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54F242	Motorola	MC54F242	
	National	54F242	
	TI	SN54F242	
♦ 54F243	Motorola	MC54F243	
	National	54F243	
	TI	SN54F243	
54F244	Rochester	54F244	
♦ 54F244	Motorola	MC54F244	
	National	54F244	
	TI	SN54F244	
♦ 54F245	Motorola	MC54F245	
	National	54F245	
	TI	SN54F245	
54F257	Motorola	MC54F257	
	National	54F257	
		54F257A	
	Rochester	54F257A	
	TI	SN54F257	
54F258	Motorola	MC54F258	
	National	54F258	
		54F258A	
	TI	SN54F258	
54F269	Motorola	MC54F269	
	National	54F2645	
		54F269	
♦ 54F273	Motorola	MC54F273	
	National	54F273	
	TI	SN54F273	
54F280	Motorola	MC54F280	
	National	54F280	
	TI	SN54F280B	
♦ 54F365	Motorola	MC54F365	
	National	54F365	
	TI	SN54F36	
54F366	Motorola	MC54F366	
	National	54F366	
54F367	Motorola	MC54F367	
54F368	Motorola	MC54F368	
	National	54F368	
54F373	Motorola	MC54F373	
	National	54F373	
	Rochester	54F373	
	TI	SN54F373	
54F374	Motorola	MC54F374	
	National	54F374	
	Rochester	54F374	
	TI	SN54F374	
54F377	Motorola	MC54F377	
	National	54F377	
54F398	Rochester	54F398	
54F521	Motorola	MC54F521	
	National	54F521	
	TI	SN54F521	
♦ 54F533	Motorola	MC54F533	
	National	54F533	
	TI	SN54F533	
♦ 54F534	Motorola	MC54F534	
	National	54F534	
	TI	SN54F534	
♦ 54F540	National	54F540	
♦ 54F545	National	54F545	
54F579	Motorola	MC54F579	
	National	54F579	
♦ 54F620	National	54F620	
	TI	SN54F620	
♦ 54F64	Motorola	MC54F64	
	National	54F632	
		54F64	
♦ 54F64	TI	SN54F64	
54F646	Motorola	MC54F646	
	National	54F646	
♦ 54F647	Motorola	MC54F648	
	National	54F648	
♦ 54F648	Motorola	MC54F648	
	National	54F648	
♦ 54F649	National	54F651	
♦ 54F655	National	54F652	
54F657	Motorola	MC54F657A	
		MC54F657B	
	National	54F657	
54F776	Philips	54F777	
54F777	Philips	54F776	
♦ 54F86	Motorola	MC54F86	
	National	54F86	
♦ 54HCT240	GEC Plessey	54HCT239SOS	
		54HCT240SOS	
♦ 54HCT240	Harris	CD54HCT240	
	Motorola	MC54HCT240A	
	National	MM54HCT240	
	TI	SN54HCT240	
♦ 54HCT244	GEC Plessey	54HCT244SOS	
	GoldStar	GD54HCT244	
	Harris	CD54HCT244	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54HCT244			(Cont'd)
	Motorola	MC54HCT244A	
	National	MM54HCT244	
	TI	SN54HCT244	
54HCT384	Harris	CD54HCT377	
♦ 54HC240	Harris	CD54HC240	
	Motorola	MC54HC240A	
	National	MM54HC240	
	TI	SN54HC240	
♦ 54HC244	GoldStar	GD54HC244	
	Harris	CD54HC244	
	Motorola	MC54HC244A	
	National	MM54HC244	
	TI	SN54HC244	
♦ 54H00	Rochester	54H00	
♦ 54H01	Rochester	54H01	
♦ 54H04	Rochester	54H04	
♦ 54H05	Rochester	54H05	
♦ 54H08	Rochester	54H08	
♦ 54H10	Rochester	54H10	
♦ 54H101	Rochester	54H101	
♦ 54H102	Rochester	54H102	
♦ 54H103	Rochester	54H103	
♦ 54H106	Rochester	54H106	
♦ 54H108	Rochester	54H108	
♦ 54H11	Rochester	54H11	
♦ 54H20	Rochester	54H20	
♦ 54H21	Rochester	54H21	
		5421	
♦ 54H22	Rochester	54H22	
♦ 54H30	Rochester	54H30	
♦ 54H40	Rochester	54H40	
♦ 54H50	Rochester	54H50	
♦ 54H51	Rochester	54H51	
♦ 54H52	Rochester	54H52	
♦ 54H53	Rochester	54H53	
♦ 54H54	Rochester	54H54	
♦ 54H55	Rochester	54H55	
♦ 54H60	Rochester	54H60	
♦ 54H61	Rochester	54H61	
♦ 54H62	Rochester	54H62	
♦ 54H71	Rochester	54H71	
♦ 54H72	Rochester	54H72	
♦ 54H73	Rochester	54H73	
♦ 54H74	Rochester	54H74	
♦ 54H76	Rochester	54H76	
♦ 54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
	Motorola	SN54LS00	
	National	DM54LS00	
		54LS00	
♦ 54LS00	SGS-Thomson		
		T54LS00	
		54LS00	
♦ 54LS00	TI	SN54LS00	
♦ 54LS01	Lansdale	SL54LS01	
	Motorola	SN54LS01	
	TI	SN54LS01	
♦ 54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
		54LS02	
♦ 54LS02	SGS-Thomson		
		T54LS02	
		54LS02	
♦ 54LS02	TI	SN54LS02	
♦ 54LS03	Motorola	SN54LS03	
	National	DM54LS03	
		54LS03	
♦ 54LS03	SGS-Thomson		
		54LS03	
	TI	SN54LS03	
♦ 54LS04	GoldStar	GD54LS04	
		54LS04	
♦ 54LS04	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
♦ 54LS04	SGS-Thomson		
		T54LS04	
		54LS04	
♦ 54LS04	TI	SN54LS04	
♦ 54LS05	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
		54LS05	
♦ 54LS05	SGS-Thomson		
		T54LS05A	
		54LS05	
♦ 54LS05	TI	SN54LS05	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54LS08	GoldStar	GD54LS08	
	Lansdale	SL54LS08	
	Motorola	SN54LS08	
	National	DM54LS08	
		54LS08	
♦ 54LS08	TI	SN54LS08	
♦ 54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
		54LS09	
♦ 54LS09	SGS-Thomson		
		T54LS09	
		54LS09	
♦ 54LS09	TI	SN54LS09	
♦ 54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	Motorola	SN54LS10	
	National	DM54LS10	
		54LS10	
♦ 54LS10	SGS-Thomson		
		T54LS10	
		54LS10	
♦ 54LS10	TI	SN54LS10	
♦ 54LS107	GoldStar	GD54LS107A	
	Lansdale	SL54LS107	
	Motorola	SN54LS107A	
	National	DM54LS107A	
	TI	SN54LS107A	
♦ 54LS109	GoldStar	GD54LS109A	
	Lansdale	SL54LS109	
	Motorola	SN54LS109A	
	National	DM54LS109	
		54LS109	
♦ 54LS109	TI	SN54LS109A	
♦ 54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	Motorola	SN54LS11	
	National	DM54LS11	
		54LS11	
♦ 54LS11	SGS-Thomson		
		T54LS11	
		54LS11	
♦ 54LS11	TI	SN54LS11	
♦ 54LS112	GoldStar	GD54LS112	
	Lansdale	SL54LS112	
	Motorola	SN54LS112A	
	National	54LS112	
	TI	SN54LS112A	
♦ 54LS113	Lansdale	SL54LS113	
	Motorola	SN54LS113A	
	National	54LS113	
♦ 54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
♦ 54LS125A	Lansdale	SL54LS125	
		SL54LS125A	
♦ 54LS125A	Motorola	SN54LS125A	
	National	DM54LS125A	
		54LS125A	
♦ 54LS125A	SGS-Thomson		
		54LS125A	
	TI	SN54LS125A	
♦ 54LS126A	Lansdale	SL54LS126A	
	Motorola	SN54LS126A	
	National	54LS126	
	SGS-Thomson		
		54LS126	
	TI	SN54LS126A	
♦ 54LS13	Lansdale	SL54LS13	
	Motorola	SN54LS13	
	National	54LS13	
	SGS-Thomson		
		T54LS13	
	TI	SN54LS13	
♦ 54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	
	SGS-Thomson		
		T54LS132	
		54LS132	
♦ 54LS132	TI	SN54LS132	
♦ 54LS132A	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	
	SGS-Thomson		
		T54LS132	
		54LS132	
♦ 54LS132A	TI	SN54LS132	
♦ 54LS136	Lansdale	SL54LS136	
	Motorola	SN54LS136	

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Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54LS136			(Cont'd)
	National	DM54LS136	
		54LS136	
♦ 54LS136	SGS-Thomson		
		T54LS136	
		54LS136	
♦ 54LS136	TI	SN54LS136	
♦ 54LS138	GoldStar	GD54LS138	
	Motorola	SN54LS138	
	National	DM54LS138	
		54LS138	
♦ 54LS138	SGS-Thomson		
		T54LS138	
		54LS138	
♦ 54LS138	TI	SN54LS138	
♦ 54LS139	GoldStar	GD54LS139	
	Lansdale	54LS139	
	Motorola	SN54LS139	
	National	DM54LS139	
		54LS139	
♦ 54LS139	SGS-Thomson		
		T54LS139	
		54LS139	
♦ 54LS139	TI	SN54LS139A	
♦ 54LS14	GoldStar	GD54LS14	
	Lansdale	SL54LS14	
	Motorola	SN54LS14	
	National	54LS14	
	SGS-Thomson		
		T54LS14	
		54LS14	
♦ 54LS14	TI	SN54LS14	
♦ 54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
		54LS151	
♦ 54LS151	SGS-Thomson		
		T54LS151	
		54LS151	
♦ 54LS151	TI	SN54LS151	
♦ 54LS153	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	Motorola	SN54LS153	
	National	DM54LS153	
		54LS152	
		54LS153	
♦ 54LS153	TI	SN54LS153	
♦ 54LS154	GoldStar	GD54LS154	
	Lansdale	SL54LS154	
	National	DM54LS154	
♦ 54LS155	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	Motorola	SN54LS155	
	National	DM54LS155	
		54LS155	
♦ 54LS155	SGS-Thomson		
		T54LS155	
		54LS155	
♦ 54LS155	TI	SN54LS155A	
♦ 54LS156	Lansdale	SL54LS156	
	Motorola	SN54LS156	
	National	DM54LS156	
		54LS156	
♦ 54LS156	SGS-Thomson		
		T54LS156	
		54LS156	
♦ 54LS156	TI	SN54LS156	
♦ 54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	Motorola	SN54LS157	
	National	DM54LS157	
		54LS157	
♦ 54LS157	SGS-Thomson		
		T54LS157	
		54LS157	
♦ 54LS157	TI	SN54LS157	
♦ 54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	Motorola	SN54LS158	
	National	DM54LS158	
		54LS158	
♦ 54LS158	SGS-Thomson		
		T54LS158	
		54LS158	
♦ 54LS158	TI	SN54LS158	
♦ 54LS160A	Lansdale	SL54LS160A	
	Motorola	SN54LS160A	
	National	54LS160A	
	TI	SN54LS160A	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54LS161A	GoldStar	GD54LS161A	
	Motorola	SN54LS161A	
	National	DM54LS161A	
		54LS161	
♦ 54LS161A	TI	SN54LS161A	
♦ 54LS162A	Lansdale	SL54LS162A	
	Motorola	SN54LS162A	
	National	54LS162A	
	TI	SN54LS162A	
♦ 54LS163A	GoldStar	GD54LS163A	
	Lansdale	SL54LS163A	
	Motorola	SN54LS163A	
	National	DM54LS163A	
		54LS163A	
♦ 54LS163A	TI	SN54LS163A	
♦ 54LS164	GoldStar	GD54LS164	
	Lansdale	SL54LS164	
	Motorola	SN54LS164	
	National	DM54LS164	
		54LS164	
♦ 54LS164	TI	SN54LS164	
♦ 54LS164B	GoldStar	GD54LS164	
	Lansdale	SL54LS164	
	Motorola	SN54LS164	
	National	DM54LS164	
		54LS164	
♦ 54LS164B	TI	SN54LS164	
♦ 54LS168A	Motorola	SN54LS168	
	National	DM54LS168A	
		54LS168	
♦ 54LS168A	SGS-Thomson		
		T54LS168	
♦ 54LS169A	Lansdale	SL54LS169A	
	Motorola	SN54LS169	
	National	DM54LS169A	
		54LS169	
♦ 54LS169A	SGS-Thomson		
		T54LS169	
	TI	SN54LS169B	
♦ 54LS170	Lansdale	SL54LS170	
	Motorola	SN54LS170	
	National	54LS170	
	SGS-Thomson		
		T54LS170	
		54LS170	
♦ 54LS170	TI	SN54LS170	
♦ 54LS173	Lansdale	SL54LS173	
	Motorola	SN54LS173A	
	National	54LS173A	
	TI	SN54LS173A	
♦ 54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
		54LS174	
♦ 54LS174	SGS-Thomson		
		T54LS174	
		54LS174	
♦ 54LS174	TI	SN54LS174	
♦ 54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
		54LS175	
♦ 54LS175	SGS-Thomson		
		T54LS175	
		54LS175	
♦ 54LS175	TI	SN54LS175	
♦ 54LS181	Lansdale	SL54LS181	
	Motorola	SN54LS181	
	National	54LS181	
	TI	SN54LS181	
♦ 54LS190	Motorola	SN54LS190	
	National	DM54LS190	
	TI	SN54LS190	
♦ 54LS191	GoldStar	GD54LS191	
	Lansdale	SL54LS191	
	Motorola	SN54LS191	
	National	DM54LS191	
	TI	SN54LS191	
♦ 54LS192	Lansdale	SL54LS192	
	Motorola	SN54LS192	
	National	54LS192	
	SGS-Thomson		
		T54LS192	
		54LS192	
♦ 54LS192	TI	SN54LS192	
♦ 54LS193	GoldStar	GD54LS193	
	Motorola	SN54LS193	
	National	DM54LS193	
		54LS193	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54LS193	SGS-Thomson		
		T54LS193	
		54LS193	
♦ 54LS193	TI	SN54LS193	
♦ 54LS194A	GoldStar	GD54LS194A	
	Lansdale	SL54LS194A	
	Motorola	SN54LS194A	
	National	54LS194A	
	SGS-Thomson		
		T54LS194A	
	TI	SN54LS194A	
♦ 54LS197	Lansdale	SL54LS197	
	Motorola	SN54LS197	
	TI	SN54LS197	
♦ 54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
		54LS20	
♦ 54LS20	SGS-Thomson		
		T54LS20	
		54LS20	
♦ 54LS20	TI	SN54LS20	
♦ 54LS21	GoldStar	GD54LS21	
	Lansdale	SL54LS21	
	Motorola	SN54LS21	
	National	DM54LS21	
		54LS21	
♦ 54LS21	TI	SN54LS21	
♦ 54LS221	GoldStar	GD54LS221	
	Motorola	SN54LS221	
	National	DM54LS221	
	TI	SN54LS221	
♦ 54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
		54LS240	
♦ 54LS240	SGS-Thomson		
		T54LS240	
		54LS240	
♦ 54LS240	TI	SN54LS240	
♦ 54LS241	GoldStar	GD54LS241	
	Lansdale	SL54LS241	
	Motorola	SN54LS241	
	National	DM54LS241	
		54LS241	
♦ 54LS241	TI	SN54LS241	
♦ 54LS242	GoldStar	GD54LS242	
	Lansdale	SL54LS242	
	Motorola	SN54LS242	
	National	DM54LS242	
	TI	SN54LS242	
♦ 54LS243	GoldStar	GD54LS243	
	Lansdale	SL54LS243	
	Motorola	SN54LS243	
	National	DM54LS243	
	TI	SN54LS243	
♦ 54LS244	GoldStar	GD54LS244	
	Lansdale	SL54LS244	
	Motorola	SN54LS244	
	National	54LS244	
	TI	SN54LS244	
♦ 54LS245	GoldStar	GD54LS245	
	Lansdale	SL54LS245	
	Motorola	SN54LS245	
	National	DM54LS245	
		54LS245	
♦ 54LS245	TI	SN54LS245	
♦ 54LS251	GoldStar	GD54LS251	
	Lansdale	SL54LS251	
	Motorola	SN54LS251	
	National	DM54LS251	
	TI	SN54LS251	
♦ 54LS253	Lansdale	SL54LS253	
	Motorola	SN54LS253	
	National	DM54LS253	
		54LS253	
♦ 54LS253	TI	SN54LS253	
♦ 54LS256	Lansdale	SL54LS256	
	Motorola	SN54LS256	
	National	54LS256	
	SGS-Thomson		
		T54LS256	
♦ 54LS257A	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
♦ 54LS257A	National	DM54LS257B	
		54LS257A	
♦ 54LS257A	TI	SN54LS257B	
♦ 54LS258A	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
			(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 54LS258A			(Cont'd)
	Motorola	SN54LS258A	
		SN54LS258B	
♦ 54LS258A	National	DM54LS258B	
		54LS258A	
♦ 54LS258A	SGS-Thomson		
		T54LS258A	
		54LS258	
♦ 54LS258A	TI	SN54LS258B	
♦ 54LS259	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
		54LS259	
♦ 54LS259	SGS-Thomson		
		T54LS259	
		54LS259	
♦ 54LS259	TI	SN54LS259B	
♦ 54LS26	GoldStar	GD54LS26	
	Lansdale	SL54LS26	
	Motorola	SN54LS26	
	National	DM54LS26	
		54LS26	
♦ 54LS26	TI	SN54LS26	
♦ 54LS260A	Lansdale	SL54LS260	
	Motorola	SN54LS260	
	National	54LS260	
	SGS-Thomson		
		T54LS260	
♦ 54LS261	Rochester	54LS261	
	TI	SN54LS261	
♦ 54LS266	Lansdale	SL54LS266	
	Motorola	SN54LS266	
	National	54LS266	
	SGS-Thomson		
		T54LS266	
		54LS266	
♦ 54LS266	TI	SN54LS266	
♦ 54LS27	GoldStar	GD54LS27	
	Motorola	SN54LS27	
	National	DM54LS27	
		54LS27	
♦ 54LS27	SGS-Thomson		
		T54LS27	
		54LS27	
♦ 54LS27	TI	SN54LS27	
54LS273	GoldStar	GD54LS273	
	Lansdale	SL54LS273	
	Motorola	SN54LS273	
	National	54LS273	
	SGS-Thomson		
		T54LS273	
		54LS273	
	TI	SN54LS273	
♦ 54LS279	Motorola	SN54LS279	
	National	DM54LS279	
		54LS279	
♦ 54LS279	SGS-Thomson		
		T54LS279	
		54LS279	
♦ 54LS279	TI	SN54LS279A	
♦ 54LS28	Motorola	SN54LS28	
	National	54LS28	
	SGS-Thomson		
		T54LS28	
	TI	SN54LS28	
♦ 54LS283	GoldStar	GD54LS283	
	Lansdale	SL54LS283	
	Motorola	SN54LS283	
	National	DM54LS283	
		54LS283	
♦ 54LS283	SGS-Thomson		
		54LS283	
	TI	SN54LS283	
♦ 54LS290	Motorola	SN54LS290	
	SGS-Thomson		
		54LS290	
	TI	SN54LS290	
♦ 54LS293	Motorola	SN54LS293	
	SGS-Thomson		
		T54LS293	
		54LS293	
♦ 54LS293	TI	SN54LS293	
♦ 54LS295B	Lansdale	SL54LS295B	
	TI	SN54LS295B	
♦ 54LS298	GoldStar	GD54LS298	
	Lansdale	SL54LS298	
	Motorola	SN54LS298	
	National	54LS298	
	SGS-Thomson		
		54LS298	
	TI	SN54LS298	
♦ 54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
◆ 54LS30			(Cont'd)
	Motorola	SN54LS30	
	National	DM54LS30	
		54LS30	
◆ 54LS30	SGS-Thomson		
		T54LS30	
		54LS30	
◆ 54LS30	TI	SN54LS30	
◆ 54LS301	Lansdale	SL54LS301	
◆ 54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
		54LS32	
◆ 54LS32	SGS-Thomson		
		T54LS32	
		54LS32	
◆ 54LS32	TI	SN54LS32	
◆ 54LS33	Lansdale	SL54LS33	
	Motorola	SN54LS33	
	National	54LS33	
	SGS-Thomson		
		T54LS33	
	TI	SN54LS33	
◆ 54LS352	Lansdale	SL54LS352	
	Motorola	SN54LS352	
	National	DM54LS352	
		54LS352	
◆ 54LS352	SGS-Thomson		
		T54LS352	
	TI	SN54LS352	
◆ 54LS353	Lansdale	SL54LS353	
	Motorola	SN54LS353	
	National	54LS353	
	SGS-Thomson		
		T54LS353	
	TI	SN54LS353	
◆ 54LS363	TI	SN54LS356	
◆ 54LS364	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	DM54LS365A	
		54LS365	
◆ 54LS364	SGS-Thomson		
		T54LS365A	
		54LS365	
◆ 54LS364	TI	SN54LS365A	
◆ 54LS365A	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	DM54LS365A	
		54LS365	
◆ 54LS365A	SGS-Thomson		
		T54LS365A	
		54LS365	
◆ 54LS365A	TI	SN54LS365A	
◆ 54LS366A	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
		54LS366	
◆ 54LS366A	SGS-Thomson		
		T54LS366A	
		54LS366	
◆ 54LS366A	TI	SN54LS366A	
◆ 54LS367A	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
		54LS367	
◆ 54LS367A	SGS-Thomson		
		T54LS367A	
		54LS367	
◆ 54LS367A	TI	SN54LS367A	
◆ 54LS368A	GoldStar	GD54LS368A	
	Motorola	SN54LS368A	
	National	DM54LS368A	
		54LS368	
◆ 54LS368A	SGS-Thomson		
		T54LS368A	
		54LS368	
◆ 54LS368A	TI	SN54LS368A	
◆ 54LS37	Lansdale	SL54LS37	
	Motorola	SN54LS37	
	National	DM54LS37	
		54LS37	
◆ 54LS37	SGS-Thomson		
		T54LS37	
		54LS37	
◆ 54LS37	TI	SN54LS37	
◆ 54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
			(Continued)
◆ 54LS373			(Cont'd)
	Motorola	SN54LS373	
	National	DM54LS373	
	SGS-Thomson		
		T54LS373	
		54LS373	
◆ 54LS373	TI	SN54LS373	
◆ 54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
		54LS374	
◆ 54LS374	SGS-Thomson		
		T54LS374	
		54LS374	
◆ 54LS374	TI	SN54LS374	
◆ 54LS375	Lansdale	SL54LS375	
	Motorola	SN54LS375	
	National	54LS375	
	TI	SN54LS375	
◆ 54LS377	GoldStar	GD54LS377	
	Lansdale	SL54LS377	
	Motorola	SN54LS377	
	National	54LS377	
	SGS-Thomson		
		T54LS377	
		54LS377	
◆ 54LS377	TI	SN54LS377	
◆ 54LS378	Lansdale	SL54LS378	
	Motorola	SN54LS378	
	National	54LS378	
	SGS-Thomson		
		T54LS378	
	TI	SN54LS378	
◆ 54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
		54LS38	
◆ 54LS38	SGS-Thomson		
		T54LS38	
		54LS38	
◆ 54LS38	TI	SN54LS38	
◆ 54LS390	GoldStar	GD54LS390	
	Lansdale	SL54LS390	
	Motorola	SN54LS390	
	SGS-Thomson		
		T54LS390	
		54LS390	
◆ 54LS390	TI	SN54LS390	
◆ 54LS393	GoldStar	GD54LS393	
	Lansdale	SL54LS393	
	Motorola	SN54LS393	
	SGS-Thomson		
		T54LS393	
	TI	SN54LS393	
◆ 54LS395A	GoldStar	GD54LS395	
	Lansdale	**SL54LS395A**	**(3674)**
	SGS-Thomson		
		T54LS395	
	TI	SN54LS395A	
◆ 54LS40	Lansdale	SL54LS40	
	Motorola	SN54LS40	
	National	54LS40	
	SGS-Thomson		
		T54LS40	
		54LS40	
◆ 54LS40	TI	SN54LS40	
◆ 54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
◆ 54LS42	National	DM54LS42	
		54LS42	
◆ 54LS42	SGS-Thomson		
		T54LS42	
		54LS42	
◆ 54LS42	TI	SN54LS42	
◆ 54LS490	**Lansdale**	**SL54LS490**	**(3674)**
	Motorola	SN54LS490	
	National	54LS490	
	SGS-Thomson		
		T54LS490	
	TI	SN54LS490	
◆ 54LS51	GoldStar	GD54LS51	
	Lansdale	SL54LS51	
	Motorola	SN54LS51	
	National	54LS503	
		54LS51	
◆ 54LS51	TI	SN54LS51	
◆ 54LS533	Lansdale	SL54LS533	
◆ 54LS534	Lansdale	SL54LS534	
			(Continued)
◆ 54LS54	Lansdale	SL54LS54	
	Motorola	SN54LS54	
	National	54LS54	
	SGS-Thomson		
		T54LS54	
		54LS54	
◆ 54LS54	TI	SN54LS54	
◆ 54LS540	**Lansdale**	**SL54LS540**	**(3674)**
	Motorola	SN54LS540	
	TI	SN54LS540	
◆ 54LS541	**Lansdale**	**SL54LS541**	**(3674)**
	Motorola	SN54LS541	
	TI	SN54LS541	
◆ 54LS569A	Lansdale	SL54LS569A	
◆ 54LS620	**Lansdale**	**SL54LS620**	**(3674)**
◆ 54LS621	**Lansdale**	**SL54LS621**	**(3674)**
◆ 54LS622	**Lansdale**	**SL54LS622**	**(3674)**
◆ 54LS623	**Lansdale**	**SL54LS623**	**(3674)**
	Motorola	SN54LS623	
◆ 54LS640	GoldStar	GD54LS640	
		GD54LS640-1	
◆ 54LS640	**Lansdale**	**SL54LS640**	**(3674)**
	Motorola	SN54LS640	
	TI	SN54LS640	
◆ 54LS641	**Lansdale**	**SL54LS641-1**	**(3674)**
	Motorola	SN54LS641	
	TI	SN54LS641	
◆ 54LS642	**Lansdale**	**SL54LS642**	**(3674)**
	Motorola	SN54LS642	
	TI	SN54LS642	
◆ 54LS642-1	Lansdale	SL54LS64-1	
		SL54LS642-1	
◆ 54LS645	**Lansdale**	**SL54LS645**	**(3674)**
		SL54LS645-1	**(3674)**
◆ 54LS645	Motorola	SN54LS645	
	TI	SN54LS645	
◆ 54LS670	GoldStar	GD54LS670	
	Lansdale	**SL54LS670**	**(3674)**
	Motorola	SN54LS670	
	National	DM54LS670	
		54LS670	
◆ 54LS670	SGS-Thomson		
		54LS670	
	TI	SN54LS670	
◆ 54LS73	GoldStar	GD54LS73A	
	Lansdale	SL54LS73	
	Motorola	SN54LS73A	
	National	DM54LS73A	
	TI	SN54LS73A	
◆ 54LS74A	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
		54LS74	
◆ 54LS74A	SGS-Thomson		
		T54LS74A	
		54LS74	
◆ 54LS74A	TI	SN54LS74A	
◆ 54LS75	Lansdale	SL54LS75	
	Motorola	SN54LS748	
		SN54LS75	
◆ 54LS75	National	DM54LS75	
	TI	SN54LS75	
◆ 54LS76	Lansdale	SL54LS76	
	Motorola	SN54LS76A	
	TI	SN54LS76A	
◆ 54LS83A	Lansdale	SL54LS83A	
	Motorola	SN54LS83A	
	National	DM54LS83A	
		54LS83A	
◆ 54LS83A	SGS-Thomson		
		54LS83A	
	TI	SN54LS83A	
◆ 54LS85	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS848	
		SN54LS85	
◆ 54LS85	National	DM54LS85	
		54LS85	
◆ 54LS85	TI	SN54LS85	
◆ 54LS86	GoldStar	GD54LS86	
	Lansdale	SL54LS86	
	Motorola	SN54LS86	
	National	DM54LS86	
	TI	SN54LS86A	
◆ 54LS90	GoldStar	GD54LS90	
	Lansdale	SL54LS90	
	Motorola	SN54LS90	
	TI	SN54LS90	
◆ 54LS92	GoldStar	GD54LS92	
	Lansdale	SL54LS92	
			(Continued)
◆ 54LS92			(Cont'd)
	Motorola	SN54LS92	
	TI	SN54LS92	
◆ 54LS93	GoldStar	GD54LS93	
	Lansdale	SL54LS93	
	Motorola	SN54LS93	
	SGS-Thomson		
		T54LS93	
		54LS93	
◆ 54LS93	TI	SN54LS93	
◆ 54LS95B	GoldStar	GD54LS95B	
	Lansdale	SL54LS95B	
	Motorola	SN54LS95B	
	National	54LS95B	
	TI	SN54LS95B	
◆ 54LS96	Lansdale	SL54LS96	
	TI	SN54LS96	
◆ 54S00	GoldStar	GD54S00	
	Lansdale	**SL54S00**	**(3674)**
	National	DM54S00	
	Rochester	54S00	
	TI	SN54S00	
◆ 54S02	GoldStar	GD54S02	
	Lansdale	**SL54S02**	**(3674)**
	National	DM54S02	
	Rochester	54S02	
	TI	SN54S02	
◆ 54S03	**Lansdale**	**SL54S03**	**(3674)**
	National	DM54S03	
	TI	SN54S03	
◆ 54S04	GoldStar	GD54S04	
	Lansdale	**SL54S04**	**(3674)**
	National	DM54S04	
	Rochester	54S04	
	TI	SN54S04	
◆ 54S05	GoldStar	GD54S05	
	Lansdale	**SL54S05**	**(3674)**
	TI	SN54S05	
◆ 54S08	GoldStar	GD54S08	
	Lansdale	**SL54S08**	**(3674)**
	National	DM54S08	
	Rochester	54S08	
	TI	SN54S08	
◆ 54S10	GoldStar	GD54S10	
	Lansdale	**SL54S10**	**(3674)**
	National	DM54S10	
	Rochester	54S10	
	TI	SN54S10	
◆ 54S11	**Lansdale**	**SL54S11**	**(3674)**
	National	DM54S11	
	Rochester	54S11	
	TI	SN54S11	
◆ 54S112	GoldStar	GD54S112	
	Lansdale	**SL54S112**	**(3674)**
	National	DM54S112	
	Rochester	54S112	
	TI	SN54S112	
◆ 54S113	National	DM54S113	
	Rochester	54S113	
	TI	SN54S113	
◆ 54S13	TI	SN54S124	
◆ 54S133	GoldStar	GD54S133	
	Lansdale	**SL54S133**	**(3674)**
	National	DM54S133	
	Rochester	54S133	
	TI	SN54S133	
◆ 54S134	Lansdale	SL54S134	
	Rochester	54S134	
	TI	SN54S134	
◆ 54S135	Rochester	54S135	
	TI	SN54S135	
◆ 54S138	GoldStar	GD54S138	
	Lansdale	**SL54S138**	**(3674)**
	National	DM54S138	
	Rochester	54S138	
	TI	SN54S138	
◆ 54S139	GoldStar	GD54S139	
	Lansdale	**SL54S139**	**(3674)**
	National	DM54S139	
	Rochester	54S139	
	TI	SN54S139	
◆ 54S140	**Lansdale**	**SL54S140**	**(3674)**
	National	DM54S140	
	Rochester	54S140	
	TI	SN54S140	
◆ 54S151	**Lansdale**	**SL54S151**	**(3674)**
	National	DM54S151	
	Rochester	54S151	
	TI	SN54S151	
◆ 54S153	GoldStar	GD54S153	
	Lansdale	**SL54S153**	**(3674)**
	National	DM54S153	
			(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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♦ 54S153			(Cont'd)
	Rochester	54S153	
	TI	SN54S153	
♦ 54S157	GoldStar	GD54S157	
	Lansdale	**SL54S157**	**(3674)**
	National	DM54S157	
	Rochester	54S157	
	TI	SN54S157	
♦ 54S158	GoldStar	GD54S158	
	Lansdale	**SL54S158**	**(3674)**
	National	DM54S158	
	Rochester	54S158	
	TI	SN54S158	
♦ 54S168A	Rochester	54S168	
♦ 54S169A	GoldStar	GD54S169A	
	TI	SN54S169	
♦ 54S172	GoldStar	GD54S174	
	Lansdale	**SL54S174**	**(3674)**
	National	DM54S174	
	Rochester	54S174	
	TI	SN54S174	
♦ 54S174	GoldStar	GD54S174	
	Lansdale	**SL54S174**	**(3674)**
	National	DM54S174	
	Rochester	54S174	
	TI	SN54S174	
♦ 54S175	GoldStar	GD54S175	
	Lansdale	**SL54S175**	**(3674)**
	National	DM54S175	
	Rochester	54S175	
	TI	SN54S175	
♦ 54S181	**Lansdale**	**SL54S181**	**(3674)**
	Rochester	54S181	
	TI	SN54S181	
♦ 54S182	Rochester	54S182	
	TI	SN54S182	
♦ 54S189	**Lansdale**	**SL54S189**	**(3674)**
	National	DM54S189	
		DM54S189A	
♦ 54S189	Rochester	54S189	
♦ 54S194	**Lansdale**	**SL54S194**	**(3674)**
♦ 54S195	**Lansdale**	**SL54S195**	**(3674)**
	National	DM54S195	
	Rochester	54S195	
	TI	SN54S195	
♦ 54S20	GoldStar	GD54S20	
	Lansdale	**SL54S20**	**(3674)**
	National	DM54S20	
	Rochester	54S20	
	TI	SN54S20	
♦ 54S225	**Lansdale**	**SL54S225**	**(3674)**
54S240	Rochester	54S240	
♦ 54S240	GoldStar	GD54S240	
	Lansdale	**SL54S240**	**(3674)**
	National	DM54S240	
	TI	SN54S240	
54S241	Rochester	54S241	
♦ 54S241	GoldStar	GD54S241	
	Lansdale	**SL54S241**	**(3674)**
	National	DM54S241	
	TI	SN54S241	
♦ 54S242	GoldStar	GD54S242	
♦ 54S243	GoldStar	GD54S243	
54S244	Rochester	54S244	
♦ 54S244	GoldStar	GD54S244	
	Lansdale	**SL54S244**	**(3674)**
	TI	SN54S244	
♦ 54S251	GoldStar	GD54S251	
	Lansdale	**SL54S251**	**(3674)**
	National	DM54S251	
	Rochester	54S251	
	TI	SN54S251	
♦ 54S253	**Lansdale**	**SL54S253**	**(3674)**
	National	DM54S253	
	Rochester	54S253	
♦ 54S257	GoldStar	GD54S257	
	Lansdale	**SL54S257**	**(3674)**
	National	DM54S257	
	Rochester	54S257	
	TI	SN54S257	
♦ 54S258	**Lansdale**	**SL54S258**	**(3674)**
	National	DM54S258	
	Rochester	54S258	
	TI	SN54S258	
♦ 54S260	**Lansdale**	**SL54S260**	**(3674)**
	Rochester	54S260	
	TI	SN54S260	
♦ 54S273	**Lansdale**	**SL54S273**	**(3674)**
♦ 54S280	GoldStar	GD54S280	
	Lansdale	**SL54S280**	**(3674)**
	National	DM54S280	
	TI	SN54S280	
♦ 54S301	**Lansdale**	**SL54S301**	**(3674)**
♦ 54S32	GoldStar	GD54S32	
	Lansdale	**SL54S32**	**(3674)**
	National	DM54S32	
	TI	SN54S32	
♦ 54S37	**Lansdale**	**SL54S37**	**(3674)**
	TI	SN54S37	
♦ 54S373	**Lansdale**	**SL54S373**	**(3674)**
	National	DM54S373	
	TI	SN54S373	
♦ 54S374	GoldStar	GD54S374	
	Lansdale	**SL54S374**	**(3674)**
	Rochester	54S374	
	TI	SN54S374	
♦ 54S38	**Lansdale**	**SL54S38**	**(3674)**
	TI	SN54S38	
♦ 54S40	**Lansdale**	**SL54S40**	**(3674)**
	National	DM54S40	
	Rochester	54S40	
	TI	SN54S40	
♦ 54S51	GoldStar	GD54S51	
	Lansdale	**SL54S51**	**(3674)**
	Rochester	54S51	
	TI	SN54S51	
♦ 54S534	**Lansdale**	**SL54S534**	**(3674)**
♦ 54S64	GoldStar	GD54S64	
	Lansdale	**SL54S64**	**(3674)**
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	Rochester	54S64	
	TI	SN54S64	
♦ 54S65	Rochester	54S65	
	TI	SN54S65	
♦ 54S74	GoldStar	GD54S74	
	Lansdale	**SL54S74**	**(3674)**
	Rochester	54S74	
	TI	SN54S74	
♦ 54S85	GoldStar	GD54S85	
	Lansdale	**SL54S85**	**(3674)**
	TI	SN54S85	
♦ 54S86	GoldStar	GD54S86	
	Lansdale	**SL54S86**	**(3674)**
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	TI	SN54S86	
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♦ 5405	Lansdale	SL5405	
	Rochester	5405	
♦ 5406	Lansdale	SL5406	
	Rochester	7006	
♦ 5407	Lansdale	SL5407	
♦ 5408	Lansdale	SL5408	
♦ 5410	Lansdale	SL5410	
♦ 54107	Rochester	54107	
♦ 54109	Rochester	7124	
♦ 54121	Lansdale	SL54121	
♦ 54123	Lansdale	SL54123	
	Rochester	54123	
♦ 54125	Lansdale	SL54125	
♦ 54126	Lansdale	SL54126	
♦ 54132	Rochester	7132	
♦ 5414	Lansdale	SL5414	
♦ 54145	Lansdale	SL54145	
♦ 54148	Rochester	7618	
♦ 54150	Lansdale	SL54150	
	Rochester	7218	
♦ 54154	Lansdale	SL54154	
	Rochester	54153	
♦ 54156	Lansdale	SL54156	
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♦ 54158	Lansdale	SL54158	
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♦ 54161	Rochester	7661	
♦ 54164	Lansdale	SL54164	
54166	Rochester	7579	
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	Rochester	7569	
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♦ 54191	Rochester	7562	
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♦ 54193	Lansdale	SL54193	
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♦ 54194	Lansdale	SL54194	
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♦ 541999	Lansdale	SL54199	
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♦ 5425	Lansdale	SL5425	
♦ 5426	Lansdale	SL5426	
♦ 5432	Lansdale	SL5432	
♦ 5433	Lansdale	SL5433	
♦ 54365A	Lansdale	SL54365A	
♦ 54366A	Lansdale	SL54366A	
♦ 54367A	Lansdale	SL54367A	
♦ 54368A	Lansdale	SL54368A	
♦ 5437	Lansdale	SL5437	
	Rochester	7037	
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♦ 5440	Lansdale	SL5440	
♦ 5445	Lansdale	SL5445	
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♦ 5474	Lansdale	SL5474	
	Rochester	7510	
♦ 5475	Rochester	7550	
♦ 5485	Lansdale	SL5485	
	Rochester	7201	
♦ 5486	Lansdale	SL5486	
♦ 5490	Lansdale	SL5490	
♦ 5492	Lansdale	SL5492	
♦ 5493	Lansdale	SL5493	
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♦ 5710	Lansdale	ML1710	
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74ABT2953	Quality Semi	QS29FCT53	
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	TI	74ACT11000	
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♦ 74ACT11032	TI	74ACT11032	
♦ 74ACT11034	TI	74ACT11034	
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♦ 74ACT11064	TI	74ACT11074	
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74AC11154	TI	74AC11154	
74AC11157	TI	74AC11157	
74AC11158	TI	74AC11158	
74AC11160	TI	74AC11160	
74AC11161	TI	74AC11161	

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♦ Discontinued

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74AC11162	TI	74AC11162	
74AC11163	TI	74AC11163	
74AC11168	TI	74AC11168	
74AC11169	TI	74AC11169	
74AC11174	TI	74AC11174	
74AC11175	TI	74AC11175	
74AC11181	TI	74AC11181	
74AC11190	TI	74AC11190	
74AC11191	TI	74AC11191	
74AC11192	TI	74AC11192	
74AC11193	TI	74AC11193	
74AC11194	TI	74AC11194	
74AC11208	TI	74AC11204	
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74AC11238	TI	74AC11238	
74AC11239	TI	74AC11239	
74AC11240	TI	74AC11240	
74AC11241	TI	74AC11241	
74AC11244	TI	74AC11244	
74AC11245	TI	74AC11245	
74AC11250	TI	74AC11250	
74AC11251	TI	74AC11251	
74AC11253	TI	74AC11253	
74AC11257	TI	74AC11257	
74AC11258	TI	74AC11258	
74AC11269	TI	74AC11269	
74AC11273	TI	74AC11273	
74AC11280	TI	74AC11280	
74AC11286	TI	74AC11286	
74AC11299	TI	74AC11299	
74AC11323	Motorola	MC74AC113	
	TI	74AC11323	
74AC11352	TI	74AC11352	
74AC11353	TI	74AC11353	
74AC11373	TI	74AC11373	
74AC11374	TI	74AC11374	
74AC11377	TI	74AC11377	
74AC11378	TI	74AC11378	
74AC11379	TI	74AC11379	
74AC11461	TI	74AC11461	
74AC11463	TI	74AC11463	
74AC11469	TI	74AC11469	
74AC11470	TI	74AC11470	
74AC11471	TI	74AC11471	
74AC11472	TI	74AC11472	
74AC11473	TI	74AC11473	
74AC11474	TI	74AC11474	
74AC11475	TI	74AC11475	
74AC11520	TI	74AC11478	
		74AC11520	
74AC11521	TI	74AC11521	
74AC11533	TI	74AC11533	
74AC11534	TI	74AC11534	
74AC11543	TI	74AC11543	
74AC11544	TI	74AC11544	
74AC11568	TI	74AC11568	
74AC11569	TI	74AC11569	
74AC11579	TI	74AC11579	
74AC11590	TI	74AC11590	
74AC11592	TI	74AC11592	
74AC11593	TI	74AC11593	
74AC11620	TI	74AC11620	
74AC11623	TI	74AC11623	
74AC11640	TI	74AC11640	
74AC11643	TI	74AC11643	
74AC11646	TI	74AC11646	
74AC11648	TI	74AC11648	
74AC11651	TI	74AC11651	
74AC11652	TI	74AC11652	
74AC11655	TI	74AC11655	
74AC11656	TI	74AC11656	
74AC11657	TI	74AC11657	
74AC11677	TI	74AC11677	
74AC11678	TI	74AC11678	
74AC11800	TI	74AC11800	
74AC11802	TI	74AC11802	
74AC11810	TI	74AC11810	
74AC11818	TI	74AC11818	
74AC11819	TI	74AC11819	
74AC11821	TI	74AC11821	
74AC11822	TI	74AC11822	
74AC11823	TI	74AC11823	
74AC11824	TI	74AC11824	
74AC11825	TI	74AC11825	
74AC11826	TI	74AC11826	
74AC11827	TI	74AC11827	
74ALS00A	National	DM74ALS00	
	TI	SN74ALS00A	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74ALS02	Mitsubishi	M74ALS02	
	National	DM74ALS02	
	TI	SN74ALS02	
74ALS04B	Mitsubishi	M74ALS04B	
	National	DM74ALS04	
	TI	SN74ALS04B	
74ALS08	Mitsubishi	M74ALS08	
	National	DM74ALS08	
	TI	SN74ALS08	
74ALS10A	Mitsubishi	M74ALS10A	
	National	DM74ALS10	
	TI	SN74ALS10A	
74ALS109A	Mitsubishi	M74ALS109A	
	National	DM74ALS109	
	TI	SN74ALS109	
74ALS11A	Mitsubishi	M74ALS11A	
	National	DM74ALS11	
	TI	SN74ALS11A	
74ALS112A	Mitsubishi	M74ALS112A	
	TI	SN74ALS112A	
74ALS138	Mitsubishi	M74ALS138	
	National	DM74ALS138	
	TI	SN74ALS138	
74ALS139	TI	SN74ALS139	
74ALS151	Mitsubishi	M74ALS151	
	National	DM74ALS151	
	TI	SN74ALS151	
74ALS153	Mitsubishi	M74ALS153	
	National	DM74ALS153	
	TI	SN74ALS153	
74ALS157	Mitsubishi	M74ALS157	
	National	DM74ALS157	
	TI	SN74ALS156	
		SN74ALS157	
74ALS158	Mitsubishi	M74ALS158	
	National	DM74ALS158	
	TI	SN74ALS158	
74ALS161B	Mitsubishi	M74ALS161B	
	National	DM74ALS161	
	TI	SN74ALS161B	
74ALS163B	Mitsubishi	M74ALS163B	
	National	DM74ALS163	
	TI	SN74ALS163B	
74ALS164	TI	SN74ALS164	
74ALS174	Mitsubishi	M74ALS174	
	National	DM74ALS174	
	TI	SN74ALS174	
74ALS175	Mitsubishi	M74ALS175	
	National	DM74ALS175	
	TI	SN74ALS175	
74ALS191	Mitsubishi	M74ALS191	
	TI	SN74ALS191	
74ALS193	Mitsubishi	M74ALS193	
	TI	SN74ALS193	
74ALS20A	Mitsubishi	M74ALS20A	
	National	DM74ALS20	
	TI	SN74ALS20A	
74ALS240	Harris	CD74FCT240	
74ALS240A	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
74ALS240A-1	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A	
	TI	SN74ALS236	
		SN74ALS240A	
		SN74ALS240A-1	
74ALS241	Harris	CD74FCT241	
74ALS241A-1	Mitsubishi	M74ALS241A	
		M74ALS241A-1	
	National	DM74ALS241	
		DM74ALS241A	
	TI	SN74ALS241A	
		SN74ALS241A-1	
74ALS244	Harris	CD74FCT244	
74ALS244A	Mitsubishi	M74ALS244A	
		M74ALS244A-1	
	National	DM74ALS244	
	Philips	74ALS244A-1	
	TI	SN74ALS244A	
		SN74ALS244A-1	
74ALS244A-1	Mitsubishi	M74ALS244A	
		M74ALS244A-1	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74ALS244A-1			(Cont'd)
	National	DM74ALS244	
	Philips	74ALS244A	
	TI	SN74ALS244A	
		SN74ALS244A-1	
74ALS245	Harris	CD74FCT245	
74ALS245A	Mitsubishi	M74ALS245A	
		M74ALS245A-1	
	National	DM74ALS245	
	Philips	74ALS245A-1	
	TI	SN74ALS2442	
		SN74ALS245A	
		SN74ALS245A-1	
74ALS245A-1	Mitsubishi	M74ALS245A	
		M74ALS245A-1	
	National	DM74ALS245	
	Philips	74ALS245A	
	TI	SN74ALS2442	
		SN74ALS245A	
		SN74ALS245A-1	
74ALS251	Mitsubishi	M74ALS251	
	National	DM74ALS251	
	TI	SN74ALS251	
74ALS253	Mitsubishi	M74ALS253	
	National	DM74ALS253	
	TI	SN74ALS253	
74ALS257	Mitsubishi	M74ALS257	
	National	DM74ALS257	
	TI	SN74ALS257	
74ALS258	Mitsubishi	M74ALS258	
	National	DM74ALS258	
	TI	SN74ALS258	
74ALS27	National	DM74ALS27	
	TI	SN74ALS259	
		SN74ALS27	
74ALS273	Harris	CD74FCT273	
	Mitsubishi	M74ALS273	
	National	DM74ALS273	
	TI	SN74ALS273	
74ALS30A	Mitsubishi	M74ALS30A	
	National	DM74ALS30	
	TI	SN74ALS30A	
74ALS32	National	DM74ALS32	
	TI	SN74ALS32	
74ALS373	Harris	CD74FCT373	
	Mitsubishi	M74ALS373	
	National	DM74ALS373	
	TI	SN74ALS373	
74ALS374	Harris	CD74FCT374	
	Mitsubishi	M74ALS374	
	National	DM74ALS374	
		DM74ALS374A	
	TI	SN74ALS374	
		SN74ALS374A	
74ALS38A	Mitsubishi	M74ALS38A	
	National	DM74ALS38	
	TI	SN74ALS38A	
74ALS543	Philips	74ALS543-1	
74ALS543-1	Philips	74ALS543	
74ALS544	Philips	74ALS544-1	
74ALS544-1	Philips	74ALS544	
74ALS563	Harris	CD74FCT563	
74ALS563A	Mitsubishi	M74ALS563A	
	National	DM74ALS563	
	TI	SN74ALS563	
		SN74ALS563A	
74ALS564	Harris	CD74FCT564	
74ALS564A	Mitsubishi	M74ALS564A	
	National	DM74ALS564	
	TI	SN74ALS564	
		SN74ALS564A	
74ALS573	Harris	CD74FCT573	
74ALS573B	Mitsubishi	M74ALS573B	
	National	DM74ALS573	
	TI	SN74ALS573	
		SN74ALS573B	
74ALS574	Harris	CD74FCT574	
74ALS574A	Mitsubishi	M74ALS574A	
	National	DM74ALS574	
	TI	SN74ALS574	
		SN74ALS574A	
74ALS620A	Mitsubishi	M74ALS620A	
		M74ALS620A-1	
	Philips	74ALS620A-1	
	TI	SN74ALS614-1	
		SN74ALS620A	
		SN74ALS620A-1	
74ALS620A-1	Mitsubishi	M74ALS620A	
		M74ALS620A-1	
	Philips	74ALS620A	
	TI	SN74ALS614-1	
		SN74ALS620A	
		SN74ALS620A-1	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74ALS623	Harris	CD74FCT623	
74ALS623A	Mitsubishi	M74ALS623A	
		M74ALS623A-1	
	Philips	74ALS623A-1	
	TI	SN74ALS623A	
		SN74ALS623A-1	
74ALS623A-1	Mitsubishi	M74ALS623A	
		M74ALS623A-1	
	Philips	74ALS623A	
	TI	SN74ALS623A	
		SN74ALS623A-1	
74ALS645A	Mitsubishi	M74ALS645A	
		M74ALS645A-1	
	National	DM74ALS645	
	Philips	74ALS645A-1	
	TI	SN74ALS645A	
		SN74ALS645A-1	
74ALS645A-1	Mitsubishi	M74ALS645A	
		M74ALS645A-1	
	National	DM74ALS645	
	Philips	74ALS645A	
	TI	SN74ALS645A	
		SN74ALS645A-1	
74ALS646	Harris	CD74FCT646	
	Mitsubishi	M74ALS646	
	Philips	74ALS646-1	
	TI	SN74ALS646	
		SN74ALS646-1	
74ALS646-1	Mitsubishi	M74ALS646	
	Philips	74ALS646	
	TI	SN74ALS646	
		SN74ALS646-1	
74ALS648	Harris	CD74FCT648	
	Mitsubishi	M74ALS648	
	National	DM74ALS648	
		DM74ALS648-1	
	Philips	74ALS648-1	
	TI	SN74ALS648	
		SN74ALS648-1	
74ALS648-1	Mitsubishi	M74ALS648	
	National	DM74ALS648	
		DM74ALS648-1	
	Philips	74ALS648	
	TI	SN74ALS648	
		SN74ALS648-1	
74ALS651	Harris	CD74FCT651	
	Mitsubishi	M74ALS651	
	National	DM74ALS651	
		DM74ALS651-1	
	Philips	74ALS651-1	
	TI	SN74ALS651	
		SN74ALS651-1	
74ALS651-1	Mitsubishi	M74ALS651	
	National	DM74ALS651	
		DM74ALS651-1	
	Philips	74ALS651	
	TI	SN74ALS651	
		SN74ALS651-1	
74ALS652	Harris	CD74FCT652	
	Mitsubishi	M74ALS652	
	Philips	74ALS652-1	
	TI	SN74ALS652	
		SN74ALS652-1	
74ALS652-1	Mitsubishi	M74ALS652	
	Philips	74ALS652	
	TI	SN74ALS652	
		SN74ALS652-1	
74ALS74A	Mitsubishi	M74ALS74A	
	National	DM74ALS74	
	TI	SN74ALS74A	
74ALS86	National	DM74ALS86	
	TI	SN74ALS857	
		SN74ALS86	
74F00	Mitsubishi	M74F00	
	Motorola	MC74F00	
	National	MM74C989	
		74F00	
	TI	SN74F00	
74F02	Mitsubishi	M74F02	
	Motorola	MC74F02	
	National	74F02	
	TI	SN74F02	
74F04	Mitsubishi	M74F04	
	Motorola	MC74F04	
	National	74F04	
	TI	SN74F04	
74F06	Philips	74F06A	
74F06A	Philips	74F06	
74F07	Philips	74F07A	
74F07A	Philips	74F07	
74F08	Mitsubishi	M74F08	
	Motorola	MC74F08	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74F08			(Cont'd)
	National	74F08	
	TI	SN74F08	
74F10	Mitsubishi	M74F10	
	Motorola	MC74F10	
	National	74F10	
	TI	SN74F09	
		SN74F10	
74F109	Mitsubishi	M74F109	
	Motorola	MC74F109	
	National	74F109	
	TI	SN74F109	
74F11	Mitsubishi	M74F11	
	Motorola	MC74F11	
	National	74F11	
	TI	SN74F11	
74F112	Mitsubishi	M74F112	
	Motorola	MC74F112	
	National	74F112	
	TI	SN74F112	
74F113	National	74F113	
	TI	SN74F113	
74F114	National	74F114	
	TI	SN74F114	
74F1240	Philips	74F1241	
74F1241	Philips	74F1240	
74F1242	Philips	74F1243	
74F1243	Philips	74F1242	
74F1244	Motorola	MC74F1245	
	Philips	74F1245	
74F1245	Motorola	MC74F1245	
	Philips	74F1244	
74F125	Mitsubishi	M74F125	
	Motorola	MC74F125	
	National	74F125	
	TI	SN74F125	
74F126	Motorola	MC74F126	
	TI	SN74F126	
74F13	Motorola	MC74F13	
	National	74F13	
74F132	Motorola	MC74F132	
	National	74F132	
74F133	Mitsubishi	M74F138	
	Motorola	MC74F138	
	National	74F138	
	Philips	74F138	
	TI	SN74F138	
74F138	Mitsubishi	M74F138	
	Motorola	MC74F138	
	National	74F138	
	Philips	74F133	
	TI	SN74F138	
74F139	Mitsubishi	M74F139	
	Motorola	MC74F139	
	National	74F139	
74F14	Mitsubishi	M74F14	
	Motorola	MC74F14	
	National	74F14	
74F148	Motorola	MC74F148	
	National	74F148	
	TI	SN74F148	
74F151	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151	
		74F151A	
	Philips	N74F151	
		N74F151A	
	TI	SN74F151	
		SN74F151A	
74F153	Mitsubishi	M74F153	
	Motorola	MC74F153	
	National	74F153	
	TI	SN74F153	
74F154	Mitsubishi	M74F157A	
	Motorola	MC74F157	
		MC74F157A	
	National	74F157	
		74F157A	
	Philips	74F157	
		74F157A	
	TI	SN74F157A	
74F157	Mitsubishi	M74F157A	
	Motorola	MC74F157	
		MC74F157A	
	National	74F157	
		74F157A	
	Philips	74F154	
		74F157A	
	TI	SN74F157A	
74F157A	Mitsubishi	M74F157A	
	Motorola	MC74F157	
		MC74F157A	
	National	74F157	
		74F157A	
	Philips	74F154	
		74F157	
	TI	SN74F157A	
74F158	Mitsubishi	M74F158A	
	Motorola	MC74F158	
		MC74F158A	
	National	74F158	
		74F158A	
	Philips	N74F158A	
	TI	SN74F158A	
74F160A	Motorola	MC74F160A	
	National	74F160A	
	TI	SN74F160A	
74F1604	Mitsubishi	M74F161A	
	Motorola	MC74F161A	
	National	74F161A	
	Philips	74F161A	
	TI	SN74F161A	
74F161A	Mitsubishi	M74F161A	
	Motorola	MC74F161A	
	National	74F161A	
	Philips	74F1604	
	TI	SN74F161A	
74F162A	Motorola	MC74F162A	
	National	74F162A	
	TI	SN74F162A	
74F163A	Mitsubishi	M74F163A	
	Motorola	MC74F163A	
	National	74F163A	
	TI	SN74F163A	
74F164	Mitsubishi	M74F164	
	Motorola	MC74F164	
	National	74F164	
		74F164A	
♦ 74F165	Philips	74F166	
	TI	SN74F166	
74F166	TI	SN74F166	
74F168	Motorola	MC74F168	
	National	74F168	
	TI	SN74F168	
74F169	Mitsubishi	M74F169	
	Motorola	MC74F169	
	National	74F169	
	TI	SN74F169	
74F173	Mitsubishi	M74F174	
	Motorola	MC74F174	
	National	74F174	
	Philips	74F174	
	TI	SN74F174	
74F174	Mitsubishi	M74F174	
	Motorola	MC74F174	
	National	74F174	
	Philips	74F173	
	TI	SN74F174	
74F175	Mitsubishi	M74F175	
	Motorola	MC74F175	
	National	74F175	
	Philips	74F175A	
	TI	SN74F175	
74F175A	Mitsubishi	M74F175	
	Motorola	MC74F175	
	National	74F175	
	Philips	74F175	
	TI	SN74F175	
74F1762	Philips	74F1763	
74F1763	Philips	74F1762	
74F1764	Philips	74F1764-1	
74F1764-1	Philips	74F1764	
74F1765	Philips	74F1765-1	
74F1765-1	Philips	74F1765	
74F1766	Philips	74F1779	
74F1779	Philips	74F1766	
74F1804	Motorola	MC74F1803	
74F1805	Philips	74F1808	
74F1808	Philips	74F1805	
74F181	Motorola	MC74F181	
	National	74F181	
74F182	Motorola	MC74F182	
	National	74F182	
74F1832	National	74F189	
	Philips	74F189A	
74F189A	National	74F189	
	Philips	74F1832	
74F190	National	74F190	
	TI	SN74F190	
74F191	National	74F191	
	TI	SN74F191	
74F192	National	74F192	
	TI	SN74F192	
74F193	National	74F193	
	TI	SN74F193	
74F194	Motorola	MC74F194	
	National	74F194	
74F195	Motorola	MC74F195	
	Philips	74F195A	
74F195A	Motorola	MC74F195	
	Philips	74F195	
74F198	Philips	74F199	
74F199	Philips	74F198	
74F20	Mitsubishi	M74F20	
	Motorola	MC74F20	
	National	74F20	
	TI	SN74F20	
74F219A	National	74F219	
74F222	Philips	74F224	
74F224	Philips	74F222	
74F2240	National	74F2240	
74F2241	National	74F2241	
74F2244	National	74F2243	
		74F2244	
74F225	Mitsubishi	M74F240	
	Motorola	MC74F240	
	National	74F240	
	Philips	74F240	
		74F240A	
	TI	SN74F240	
74F240	Harris	CD74FCT240	
	Mitsubishi	M74F240	
	Motorola	MC74F240	
	National	74F240	
	Philips	74F225	
		74F240A	
	TI	SN74F240	
74F240A	Mitsubishi	M74F240	
	Motorola	MC74F240	
	National	74F240	
	Philips	74F225	
		74F240	
	TI	SN74F240	
74F241	Mitsubishi	M74F241	
	Motorola	MC74F241	
	National	74F241	
	Philips	74F241A	
	TI	SN74F241	
74F241A	Mitsubishi	M74F241	
	Motorola	MC74F241	
	National	74F241	
	Philips	74F241	
	TI	SN74F241	
74F242	Motorola	MC74F242	
	National	74F242	
	TI	SN74F242	
74F243	Motorola	MC74F243	
	National	74F243	
	TI	SN74F243	
74F244	Harris	CD74FCT244	
	Mitsubishi	M74F244	
	Motorola	MC74F244	
	National	74F244	
	Philips	74F244B	
	TI	SN74F244	
74F244B	Mitsubishi	M74F244	
	Motorola	MC74F244	
	National	74F244	
	Philips	74F244	
	TI	SN74F244	
74F245	Harris	CD74FCT245	
	Mitsubishi	M74F245	
	Motorola	MC74F245	
	National	74F245	
	TI	SN74F245	
74F251	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251	
		74F251A	
	Philips	N74F251A	
		74F251A	
	TI	SN74F251	
		SN74F251A	
74F251A	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251	
		74F251A	
	Philips	N74F251A	
		74F251	
	TI	SN74F251	
		SN74F251A	
74F253	Mitsubishi	M74F253	
	Motorola	MC74F253	
74F253			(Cont'd)
	National	74F253	
	TI	SN74F253	
74F256	Motorola	MC74F256	
	National	74F256	
74F257	Mitsubishi	M74F257A	
	Motorola	MC74F257	
		MC74F257A	
	National	74F257	
		74F257A	
	Philips	N74F257A	
		74F257A	
	TI	SN74F257	
74F257A	Mitsubishi	M74F257A	
	Motorola	MC74F257	
		MC74F257A	
	National	74F257	
		74F257A	
	Philips	N74F257A	
		74F257	
	TI	SN74F257	
74F258	Mitsubishi	M74F258A	
	Motorola	MC74F258	
		MC74F258A	
	National	74F258	
		74F258A	
	Philips	N74F258A	
		74F258A	
	TI	SN74F258	
74F258A	Mitsubishi	M74F258A	
	Motorola	MC74F258	
		MC74F258A	
	National	74F258	
		74F258A	
	Philips	N74F258A	
		74F258	
	TI	SN74F258	
74F259	Motorola	MC74F259	
	National	74F259	
74F260	TI	SN74F260	
74F269	Motorola	MC74F269	
	National	74F2645	
		74F269	
74F27	National	74F27	
	TI	SN74F27	
74F273	Harris	CD74FCT273	
	Motorola	MC74F273	
	National	74F273	
	Philips	74F273A	
	TI	SN74F273	
74F273A	Motorola	MC74F273	
	National	74F273	
	Philips	74F273	
	TI	SN74F273	
74F280A	Mitsubishi	M74F280	
	Motorola	MC74F280	
	National	74F280	
	Philips	74F280B	
	TI	SN74F280A	
74F280B	Mitsubishi	M74F280	
	Motorola	MC74F280	
	National	74F280	
	Philips	74F280A	
	TI	SN74F280A	
74F283	Mitsubishi	M74F283	
	Motorola	MC74F283	
	National	74F283	
	TI	SN74F283	
74F2952	Motorola	MC74F29368	
74F2953	Motorola	MC74F2960	
		MC74F2960A	
74F298	National	74F298	
74F299	Motorola	MC74F299	
	National	74F299	
	TI	SN74F299	
74F30	Mitsubishi	M74F30	
	National	74F30	
	TI	SN74F30	
74F30240	Philips	74F30241	
74F30241	Philips	74F30240	
74F30244	Philips	74F30245	
74F30245	Philips	74F30244	
74F3037	Philips	74F3038	
74F3038	Philips	74F3037	
74F32	Mitsubishi	M74F32	
	Motorola	MC74F32	
	National	74F32	
	TI	SN74F32	
74F322	National	74F322	
74F323	Motorola	MC74F323	
	National	74F323	
	TI	SN74F323	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74F350	Motorola	MC74F350	
	National	74F350	
	TI	SN74F350	
74F352	Mitsubishi	M74F352	
	Motorola	MC74F352	
	National	74F352	
	TI	SN74F352	
74F353	Mitsubishi	M74F353	
	Motorola	MC74F353	
	National	74F353	
	TI	SN74F353	
74F365	Motorola	MC74F365	
	National	74F365	
	TI	SN74F36	
74F366	Motorola	MC74F366	
	National	74F366	
74F367	Motorola	MC74F367	
74F368	Motorola	MC74F368	
	National	74F368	
74F37	Motorola	MC74F37	
	National	74F37	
	TI	SN74F37	
74F373	Harris	CD74FCT373	
	Mitsubishi	M74F373	
	Motorola	MC74F373	
	National	74F373	
	TI	SN74F373	
74F374	Harris	CD74FCT374	
	Mitsubishi	M74F374	
	Motorola	MC74F374	
	National	74F374	
	TI	SN74F374	
74F377	Motorola	MC74F377	
	National	74F377	
	Philips	74F377A	
	TI	SN74F377	
74F377A	Motorola	MC74F377	
	National	74F377	
	Philips	74F377	
	TI	SN74F377	
74F378	Motorola	MC74F378	
	National	74F378	
	TI	SN74F378	
74F379	Motorola	MC74F379	
	National	74F379	
	TI	SN74F379	
74F38	Motorola	MC74F38	
	National	74F38	
	TI	SN74F38	
74F381	Motorola	MC74F381	
	National	74F381	
	TI	SN74F381	
74F382	Motorola	MC74F382	
	National	74F382	
	TI	SN74F382	
♦ 74F384	National	74F384	
74F385	National	74F385	
74F3893	Motorola	MC74F3893A	
74F395	National	74F395	
	Philips	N74F393	
74F398	Motorola	MC74F398	
	National	74F398	
74F399	Motorola	MC74F399	
	National	74F399	
74F40	Motorola	MC74F40	
	National	74F40	
	TI	SN74F40	
74F412	National	74F412	
♦ 74F429	National	74F430	
74F432	National	74F432	
74F50728	Philips	74F50729	
74F50729	Philips	74F50728	
74F5074	Motorola	MC74F51	
	National	74F51	
	Philips	74F51	
	TI	SN74F51	
74F51	Motorola	MC74F51	
	National	74F51	
	Philips	74F5074	
	TI	SN74F51	
74F521	Mitsubishi	M74F521	
	Motorola	MC74F521	
	National	74F521	
	TI	SN74F521	
74F524	National	74F524	
74F533	Harris	CD74FCT533	
	Motorola	MC74F533	
	National	74F533	
	TI	SN74F533	
74F534	Harris	CD74FCT534	
	Motorola	MC74F534	
	National	74F534	
	TI	SN74F534	
74F537	Motorola	MC74F537	
	National	74F537	
74F538	Motorola	MC74F538	
	National	74F538	
74F539	Motorola	MC74F539	
	National	74F539	
74F540	Harris	CD74FCT540	
	National	74F540	
	TI	SN74F540	
74F541	Harris	CD74FCT541	
	National	74F541	
	TI	SN74F541	
74F543	Harris	CD74FCT543	
	Mitsubishi	M74F543	
	Motorola	MC74F543	
	National	74F543	
	TI	SN74F543	
74F544	Harris	CD74FCT544	
	Motorola	MC74F544	
	National	74F544	
	TI	SN74F544	
74F545	National	74F545	
74F547	National	74F547	
74F548	National	74F548	
74F552	National	74F552	
74F563	Harris	CD74FCT563	
	National	74F563	
	TI	SN74F563	
74F564	Harris	CD74FCT564	
	National	74F564	
	TI	SN74F564	
74F568	Motorola	MC74F568	
	National	74F568	
	TI	SN74F568	
74F569	Motorola	MC74F569	
	National	74F569	
	TI	SN74F569	
74F573	Harris	CD74FCT573	
	Mitsubishi	M74F573	
	National	74F573	
	TI	SN74F573	
74F579	Motorola	MC74F579	
	National	74F579	
74F583	National	74F583	
74F588	National	74F588	
74F595	National	74F595	
74F597	National	74F597	
74F620	Motorola	MC74F620	
	National	74F620	
	TI	SN74F620	
74F621	TI	SN74F621	
74F622	TI	SN74F622	
74F623	Harris	CD74FCT623	
	Motorola	MC74F623	
	National	74F623	
	TI	SN74F623	
74F64	Motorola	MC74F64	
	National	74F632	
		74F64	
	TI	SN74F64	
74F640	Motorola	MC74F640	
	National	74F640	
74F641	Philips	74F642	
74F642	Philips	74F641	
74F646	Mitsubishi	M74F646	
	Motorola	MC74F646	
	National	74F646	
	Philips	N74F646A	
		74F646A	
	TI	SN74F646	
74F646A	Mitsubishi	M74F646	
	Motorola	MC74F646	
	National	74F646	
	Philips	N74F646A	
		74F646	
	TI	SN74F646	
74F647	Mitsubishi	M74F648	
	Motorola	MC74F648	
	National	74F648	
	Philips	N74F648A	
		74F648	
		74F648A	
74F648	Harris	CD74FCT648	
	Mitsubishi	M74F648	
	Motorola	MC74F648	
	National	74F648	
	Philips	N74F648A	
		74F647	
		74F648A	
74F648A	Mitsubishi	M74F648	
	Motorola	MC74F648	
	National	74F648	
	Philips	N74F648A	
		74F647	
		74F648	
74F649	National	74F651	
	Philips	N74F651A	
		74F651	
		74F651A	
74F651	Harris	CD74FCT651	
	National	74F651	
	Philips	N74F651A	
		74F649	
		74F651A	
74F651A	National	74F651	
	Philips	N74F651A	
		74F649	
		74F651	
74F652	Harris	CD74FCT652	
	National	74F652	
	Philips	N74F652A	
		74F652A	
74F652A	National	74F652	
	Philips	N74F652A	
		74F652	
74F653	Philips	74F654	
74F654	Philips	74F653	
74F657	Motorola	MC74F657A	
		MC74F657B	
	National	74F657	
	TI	SN74F657	
74F670	National	74F673	
		74F673A	
♦ 74F673A	National	74F673	
		74F673A	
♦ 74F673A	Philips	74F670	
74F674	National	74F674	
74F676	National	74F676	
74F711-1	National	74F710	
	Philips	74F711A	
74F711A	National	74F710	
	Philips	74F711-1	
74F712-1	Philips	74F712A	
74F712A	Philips	74F712-1	
74F723-1	Philips	74F723A	
74F723A	Philips	74F723-1	
74F725-1	Philips	74F725A	
74F725A	Philips	74F725-1	
74F732	Philips	74F733	
74F733	Philips	74F732	
74F74	Mitsubishi	M74F74	
	Motorola	MC74F74	
	National	74F74	
	TI	SN74F74	
74F755	Philips	74F756	
74F756	Philips	74F755	
74F757	Philips	74F760	
74F760	Philips	74F757	
74F764	Philips	74F764-1	
74F764-1	Philips	74F764	
74F765	Philips	74F765-1	
74F765-1	Philips	74F765	
74F776	TI	SN74F776	
74F779	Motorola	MC74F779	
	National	74F779	
	Philips	N74F777	
74F804	Philips	74F805	
74F805	Philips	74F804	
74F807	Philips	74F808	
74F808	Philips	74F807	
74F821	AMD	AM29821	
	Harris	CD74FCT821	
	Mitsubishi	M74F821	
	National	74F821	
74F822	Mitsubishi	M74F823	
	National	74F823	
	Philips	74F823	
74F823	AMD	AM29823	
	Harris	CD74FCT823	
	Mitsubishi	M74F823	
	National	74F823	
	Philips	74F822	
74F824	Mitsubishi	M74F825	
	National	74F825	
	Philips	74F825	
74F825	Mitsubishi	M74F825	
	National	74F825	
	Philips	74F824	
74F826	Motorola	MC74F827	
	National	74F827	
	Philips	74F827	
74F827	AMD	AM29827	
	Harris	CD74FCT827	
	Motorola	MC74F827	
	National	74F827	
	Philips	74F826	
74F828	Harris	CD74FCT828	
	Motorola	MC74F828	
	National	74F828	
74F832	Philips	74F835	
74F835	Philips	74F832	
74F841	AMD	AM29841	
	Harris	CD74FCT841	
	Mitsubishi	M74F841	
	National	74F841	
74F842	Mitsubishi	M74F843	
	National	74F843	
	Philips	74F843	
74F843	AMD	AM29843	
	Harris	CD74FCT843	
	Mitsubishi	M74F843	
	National	74F843	
	Philips	74F842	
74F844	Mitsubishi	M74F845	
	National	74F845	
	Philips	74F845	
74F845	Mitsubishi	M74F845	
	National	74F845	
	Philips	74F844	
74F846	Philips	74F847	
74F847	Philips	74F846	
74F85	Motorola	MC74F85	
74F86	Mitsubishi	M74F86	
	Motorola	MC74F86	
	National	74F86	
	TI	SN74F86	
74F861	AMD	AM29C861A	
	Philips	74F862	
74F862	Philips	74F861	
74F863	AMD	AM29C863A	
	Philips	74F864	
74F864	Philips	74F863	
74F881	Philips	74F882	
74F882	Philips	74F881	
74F8960	Philips	74F8961	
74F8961	Philips	74F8960	
74F8965	Philips	74F8966	
74F8966	Philips	74F8965	
74F899	National	74F899	
74HCT00	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	TI	SN74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
74HCT02	GoldStar	GD74HCT01	
		GD74HCT02	
	Harris	CD74HCT02	
	TI	SN74HCT02	
	Toshiba	**TC74HCT02A**	**(3836)**
74HCT03	GoldStar	GD74HCT03	
	Harris	CD74HCT03	
	National	MM74HCT03	
74HCT04	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	SGS-Thomson	M74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
74HCT08	GoldStar	GD74HCT08	
	Harris	CD74HCT08	
	Motorola	MC74HCT08A	
	National	MM74HCT08	
	TI	SN74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
74HCT10	GoldStar	GD74HCT09	
		GD74HCT10	
	Harris	CD74HCT10	
74HCT107	Harris	CD74HCT107	
74HCT109	Harris	CD74HCT109	
	National	MM74HCT109	
74HCT11	GoldStar	GD74HCT11	
	Harris	CD74HCT11	
74HCT112	Harris	CD74HCT112	
	National	MM74HCT112	
74HCT123	Harris	CD74HCT123	
74HCT125	GoldStar	GD74HCT125	
	Harris	CD74HCT125	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Replacement Device	IC Master Page
74HCT126	GoldStar	GD74HCT126	
	Harris	CD74HCT126	
74HCT132	Harris	CD74HCT132	
74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	(3836)
74HCT139	GEC Plessey	MV74HCT139	
		74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	TI	SN74HCT139	
	Toshiba	**TC74HCT139A**	(3836)
74HCT14	Harris	CD74HCT14	
	Motorola	MC74HCT14A	
74HCT147	GoldStar	GD74HCT147	
	Harris	CD74HCT147	
	National	MM74HCT147	
74HCT151	GoldStar	GD74HCT151	
	Harris	CD74HCT151	
	National	MM74HCT149	
		MM74HCT151	
74HCT153	GoldStar	GD74HCT153	
	Harris	CD74HCT153	
	National	MM74HCT153	
74HCT154	GoldStar	GD74HCT154	
	Harris	CD74HCT154	
74HCT157	GoldStar	GD74HCT157	
	Harris	CD74HCT157	
	Motorola	MC74HCT157A	
	National	MM74HCT157	
	SGS-Thomson	M74HCT157	
	Toshiba	**TC74HCT157A**	(3836)
74HCT158	GoldStar	GD74HCT158	
	Harris	CD74HCT158	
	Motorola	MC74HCT158A	
	National	MM74HCT158	
	SGS-Thomson	M74HCT158	
	Toshiba	**TC74HCT158A**	(3836)
74HCT160	GoldStar	GD74HCT160	
	Harris	CD74HCT160	
74HCT161	GoldStar	GD74HCT161	
	Harris	CD74HCT161	
	Motorola	MC74HCT161A	
74HCT162	GoldStar	GD74HCT162	
	Harris	CD74HCT162	
74HCT163	GoldStar	GD74HCT163	
	Harris	CD74HCT163	
	Motorola	MC74HCT163A	
74HCT164	Harris	CD74HCT164	
	National	MM74HCT164	
	SGS-Thomson	M74HCT164	
	Toshiba	**TC74HCT164A**	(3836)
74HCT165	GoldStar	GD74HCT165	
	Harris	CD74HCT165	
74HCT166	Harris	CD74HCT166	
	National	MM74HCT166	
74HCT173	GoldStar	GD74HCT173	
	Harris	CD74HCT173	
74HCT174	GoldStar	GD74HCT174	
	Harris	CD74HCT174	
	Motorola	MC74HCT174A	
	Toshiba	TC74HCT174A	

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Manufacturer Device	Replacement Source	Replacement Device	IC Master Page
74HCT175	GoldStar	GD74HCT175	
	Harris	CD74HCT175	
74HCT181	Harris	CD74HCT181	
74HCT182	Harris	CD74HCT182	
74HCT190	GoldStar	GD74HCT190	
	Harris	CD74HCT190	
	National	74HCT190	
74HCT191	GoldStar	GD74HCT191	
	Harris	CD74HCT191	
	National	MM74HCT191	
74HCT192	GoldStar	GD74HCT192	
	Harris	CD74HCT192	
	National	MM74HCT192	
74HCT193	Harris	CD74HCT193	
	National	MM74HCT193	
74HCT194	Harris	CD74HCT194	
74HCT195	Harris	CD74HCT195	
74HCT20	GoldStar	GD74HCT20	
	Harris	CD74HCT20	
74HCT21	GoldStar	GD74HCT21	
	Harris	CD74HCT21	
74HCT221	GoldStar	GD74HCT221	
	Harris	CD74HCT221	
74HCT237	GEC Plessey	MV74HCT237	
		74HCT237	
	Harris	CD74HCT22106	
		CD74HCT237	
	TI	SN74HCT237	
74HCT238	GEC Plessey	MV74HCT238	
		74HCT238	
	Harris	CD74HCT238	
	TI	SN74HCT238	
74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	(3836)
74HCT242	Harris	CD74HCT242	
	TI	SN74HCT242	
74HCT243	Harris	CD74HCT243	
	TI	SN74HCT243	
74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	(3836)
74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	(3836)
74HCT251	Harris	CD74HCT251	
	National	MM74HCT251	
74HCT257	GoldStar	GD74HCT257	
	Harris	CD74HCT257	
	National	MM74HCT257	

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Manufacturer Device	Replacement Source	Replacement Device	IC Master Page
74HCT257			(Cont'd)
	SGS-Thomson	M74HCT257	
	Toshiba	**TC74HCT257A**	(3836)
74HCT258	Harris	CD74HCT258	
	National	MM74HCT258	
	SGS-Thomson	M74HCT258	
	Toshiba	**TC74HCT258A**	(3836)
74HCT259	Harris	CD74HCT259	
74HCT27	GoldStar	GD74HCT27	
	Harris	CD74HCT27	
74HCT273	GoldStar	GD74HCT273	
	Harris	CD74HCT273	
	Mitsubishi	M74HCT273-1	
	Motorola	MC74HCT273A	
	National	MM74HCT273	
	Toshiba	**TC74HCT273A**	(3836)
74HCT280	GoldStar	GD74HCT280	
	Harris	CD74HCT280	
74HCT283	Harris	CD74HCT283	
74HCT297	Harris	CD74HCT297	
74HCT299	GoldStar	GD74HCT299	
	Harris	CD74HCT299	
74HCT30	GoldStar	GD74HCT30	
	Harris	CD74HCT30	
74HCT32	GoldStar	GD74HCT32	
	Harris	CD74HCT32	
	Motorola	MC74HCT32A	
	National	MM74HCT32	
	TI	SN74HCT32	
	Toshiba	**TC74HCT32A**	(3836)
74HCT354	Harris	CD74HCT354	
	Toshiba	**TC74HCT352A**	(3836)
74HCT356	Harris	CD74HCT356	
74HCT365	GoldStar	GD74HCT365	
	Harris	CD74HCT365	
74HCT366	GoldStar	GD74HCT366	
	Harris	CD74HCT366	
74HCT367	GoldStar	GD74HCT367	
	Harris	CD74HCT367	
74HCT368	GoldStar	GD74HCT368	
	Harris	CD74HCT368	
74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	(3836)
74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	(3836)
74HCT377	Harris	CD74HCT377	
74HCT390	Harris	CD74HCT390	
74HCT393	GoldStar	GD74HCT393	
	Harris	CD74HCT393	
74HCT4002	Harris	CD74HCT4002	
74HCT40102	Harris	CD74HCT40102	
74HCT40103	Harris	CD74HCT40103	
74HCT40104	Harris	CD74HCT40104	
74HCT40105	Harris	CD74HCT40105	
74HCT4015	Harris	CD74HCT4015	
74HCT4017	Harris	CD74HCT4017	
74HCT4020	Harris	CD74HCT4020	
74HCT4024	Harris	CD74HCT4024	
74HCT4040	Harris	CD74HCT4040	
74HCT4046A	Harris	CD74HCT4046A	
74HCT4051	Harris	CD74HCT4051	
74HCT4052	Harris	CD74HCT4052	
74HCT4053	Harris	CD74HCT4053	
74HCT4059	Harris	CD74HCT4059	
74HCT4060	Harris	CD74HCT4060	
74HCT4066	Harris	CD74HCT4066	
74HCT4067	Harris	CD74HCT4067	

(Continued)

Manufacturer Device	Replacement Source	Replacement Device	IC Master Page
74HCT4075	Harris	CD74HCT4075	
74HCT4094	Harris	CD74HCT4094	
74HCT42	GoldStar	GD74HCT42	
	Harris	CD74HCT42	
74HCT423	Harris	CD74HCT423	
74HCT4316	Harris	CD74HCT4316	
74HCT4351	Harris	CD74HCT4351	
74HCT4352	Harris	CD74HCT4352	
74HCT4353	Harris	CD74HCT4353	
74HCT4510	Harris	CD74HCT4510	
74HCT4511	Harris	CD74HCT4511	
74HCT4514	Harris	CD74HCT4514	
74HCT4515	Harris	CD74HCT4515	
74HCT4516	Harris	CD74HCT4516	
74HCT4518	Harris	CD74HCT4518	
74HCT4520	Harris	CD74HCT4520	
74HCT4538	Harris	CD74HCT4538	
74HCT4543	Harris	CD74HCT4543	
74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	(3836)
74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	(3836)
74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	(3836)
74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	(3836)
74HCT563	GEC Plessey	MV74HCT563	
		74HCT563	
	Harris	CD74HCT563	
	SGS-Thomson	M74HCT563	
	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	(3836)
74HCT564	GEC Plessey	MV74HCT564	
		74HCT564	
	Harris	CD74HCT564	
	National	MM74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	(3836)
74HCT573	GEC Plessey	MV74HCT573	
		74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
74HCT574	GEC Plessey	MV74HCT574	
		74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HCT574			(Cont'd)
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**
74HCT583	GoldStar	GD74HCT58	
	Harris	CD74HCT583	
74HCT597	Harris	CD74HCT597	
74HCT640	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
	Universal	US74HCT640	
74HCT643	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
74HCT646	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
74HCT648	GoldStar	GD74HCT648	
	Harris	CD74HCT648	
	SGS-Thomson	M74HCT648	
	TI	SN74HCT648	
	Toshiba	**TC74HCT648A**	**(3836)**
74HCT670	Harris	CD74HCT670	
74HCT688	Harris	CD74HCT688	
	National	MM74HCT688	
	SGS-Thomson	M74HCT688	
	Toshiba	**TC74HCT688A**	**(3836)**
74HCT7030	Harris	CD74HCT7030	
74HCT7046A	Harris	CD74HCT7038	
		CD74HCT7046A	
74HCT73	Harris	CD74HCT73	
74HCT74	GoldStar	GD74HCT74	
	Harris	CD74HCT74	
	Motorola	MC74HCT74A	
	National	MM74HCT74	
	SGS-Thomson	M74HCT74	
	TI	SN74HCT74	
	Toshiba	**TC74HCT74A**	**(3836)**
74HCT75	Harris	CD74HCT75	
74HCT7540	Philips	74HCT7541	
74HCT7541	Philips	74HCT7540	
74HCT7597	National	MM74HCT76	
74HCT85	Harris	CD74HCT85	
74HCT86	GoldStar	GD74HCT86	
	Harris	CD74HCT86	
	SGS-Thomson	M74HCT86	
	Toshiba	**TC74HCT86A**	**(3836)**
74HCT9014	Philips	74HCT9015	
74HCT9015	Philips	74HCT9014	
74HCT9114	Philips	74HCT9115	
74HCT9115	Philips	74HCT9114	
74HCT93	Harris	CD74HCT93	
74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123	
		MM74HC123A	
	SGS-Thomson	M74HC123	
		M74HC123A	
	Toshiba	TC74HC123	
		TC74HC123A	
74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
74HC126	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
74HC166	Harris	CD74HC166	
	National	MM74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	

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• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
74HC181	Harris	CD74HC181	
	National	MM74HC181	
	SGS-Thomson	M74HC181	
	Toshiba	**TC74HC181A**	**(3836)**
74HC182	Harris	CD74HC182	
	National	MM74HC182	
	SGS-Thomson	M74HC182	
	Toshiba	**TC74HC182A**	**(3836)**
74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	(Continued)
74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
74HC21	GoldStar	GD74HC21	
	Harris	CD74HC21	
	SGS-Thomson	M74HC21	
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	**(3836)**
	Universal	US74HC21	
74HC221	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	SGS-Thomson	M74HC221	
		M74HC221A	
	Toshiba	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
74HC237	Harris	CD74HC22106	
		CD74HC237	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
74HC238	Harris	CD74HC238	
	National	MM74HC238	
	SGS-Thomson	M74HC238	
	TI	SN74HC238	
	Toshiba	**TC74HC238A**	**(3836)**
74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
74HC243	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	National	MM74HC243	
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	**(3836)**
74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)** (Continued)
74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
74HC258	Harris	CD74HC258	
	National	MM74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	**(3836)**
74HC297	Harris	CD74HC297	
74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	SGS-Thomson	M74HC299	(Continued)
74HC299			(Cont'd)
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
74HC354	Harris	CD74HC354	
	Motorola	MC74HC354	
	National	MM74HC354	
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	**(3836)**
74HC356	Harris	CD74HC356	
	National	MM74HC356	
	SGS-Thomson	M74HC356	
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	**(3836)**
74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	**(3836)**
74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)** (Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HC377	Harris	CD74HC377	
	SGS-Thomson	M74HC377	
	TI	SN74HC377	
	Toshiba	**TC74HC377A**	**(3836)**
74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
74HC4002	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	**(3836)**
74HC40102	Harris	CD74HC40102	
	SGS-Thomson	M74HC40102	
	Toshiba	**TC74HC4007A**	**(3836)**
		TC74HC40102A	**(3836)**
74HC40103	Harris	CD74HC40103	
	SGS-Thomson	M74HC40103	
	Toshiba	**TC74HC40103A**	**(3836)**
74HC40104	Harris	CD74HC40104	
74HC40105	Harris	CD74HC40105	
	Toshiba	**TC74HC40105A**	**(3836)**
74HC4015	Harris	CD74HC4015	
74HC4016	Harris	CD74HC4016	
	Motorola	MC74HC4016	
	National	MM74HC4016	
	Toshiba	**TC74HC4016A**	**(3836)**
74HC4017	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	National	MM74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	**(3836)**
74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
74HC4024	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836)**
74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	**(3836)**
74HC4046A	Harris	CD74HC4046A	
	Motorola	MC74HC4046A	
	National	MM74HC4046	
74HC4049	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	SGS-Thomson	M74HC4049	
	Toshiba	**TC74HC4049A**	**(3836)**
74HC4050	Harris	CD74HC4050	
	Mitsubishi	M74HC4050B	
	Motorola	MC74HC4050	
	National	MM74HC4050	
	SGS-Thomson	M74HC4050	
	Toshiba	**TC74HC4050A**	**(3836)**
74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
74HC4059	Harris	CD74HC4059	
74HC4060	Harris	CD74HC4060	
	Motorola	MC74HC4060	
	National	MM74HC4060	
	SGS-Thomson	M74HC4060	
	TI	SN74HC4060	
	Toshiba	**TC74HC4060A**	**(3836)**
74HC4066	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
	Toshiba	**TC74HC4066A**	**(3836)**
74HC4067	Harris	CD74HC4067	
74HC4075	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	**(3836)**
74HC4094	Harris	CD74HC4094	
	SGS-Thomson	M74HC4094	
	Toshiba	**TC74HC4094A**	**(3836)**
74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
74HC423	Harris	CD74HC423	
	National	MM74HC423A	
	SGS-Thomson	M74HC423	
		M74HC423A	
	Toshiba	TC74HC423	
		TC74HC423A	**(3836)**
74HC4316	Harris	CD74HC4316	
	Motorola	MC74HC4316	
	National	MM74HC4316	
	SGS-Thomson	M74HC4316	
	Toshiba	**TC74HC4316A**	**(3836)**
74HC4351	Harris	CD74HC4351	
	Motorola	MC74HC4351	
	SGS-Thomson	M74HC4351	
	Toshiba	**TC74HC4351A**	**(3836)**
74HC4352	Harris	CD74HC4352	
	Motorola	MC74HC4352	
	SGS-Thomson	M74HC4352	
	Toshiba	**TC74HC4352A**	**(3836)**
74HC4353	Harris	CD74HC4353	
	Motorola	MC74HC4353	
	SGS-Thomson	M74HC4353	
	Toshiba	**TC74HC4353A**	**(3836)**
74HC4510	Harris	CD74HC4510	
74HC4511	Harris	CD74HC4511	
	Motorola	MC74HC4511	
	National	MM74HC4511	
	SGS-Thomson	M74HC4511	
	Toshiba	**TC74HC4511A**	**(3836)**
74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
74HC4515	Harris	CD74HC4515	
	TI	SN74HC4515	
	Toshiba	**TC74HC4515A**	**(3836)**
74HC4516	Harris	CD74HC4516	
74HC4518	Harris	CD74HC4518	
	National	MM74HC4518	
	SGS-Thomson	M74HC4518	
	Toshiba	**TC74HC4518A**	**(3836)**
74HC4520	Harris	CD74HC4520	
	National	MM74HC4520	
	Toshiba	**TC74HC4520A**	**(3836)**
74HC4538	Harris	CD74HC4538	
	Motorola	MC74HC4538A	
	National	MM74HC4538	
	SGS-Thomson	M74HC4538	
	Toshiba	**TC74HC4538A**	**(3836)**
74HC4543	Harris	CD74HC4543	
	National	MM74HC4543	
	SGS-Thomson	M74HC4543	
	Toshiba	TC74HC4543A	
74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
74HC540	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
	Toshiba	TC74HC5353A	
		TC74HC540A	**(3836)**
74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
74HC5555	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC563	
	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555	
	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
74HC573	Harris	CD74HC573	
	Motorola	MC74HC573A	
	National	MM74HC573	
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
	National	MM74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
74HC583	Harris	CD74HC583	
74HC597	Harris	CD74HC597	
	Motorola	MC74HC597	
	National	MM74HC597	
	SGS-Thomson	M74HC597	
	Toshiba	TC74HC597A	
74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
	Motorola	MC74HC640A	
	National	MM74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
	National	MM74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74HC648 (Cont'd)	SGS-Thomson	M74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	(3836)
74HC670	Harris	CD74HC670	
	Motorola	MC74HC670	
	SGS-Thomson	M74HC670	
	Toshiba	**TC74HC670A**	(3836)
74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	(3836)
74HC7030	Harris	CD74HC7030	
74HC7046A	Harris	CD74HC7038	
		CD74HC7046A	
74HC7266	Harris	CD74HC7266	
	Motorola	MC74HC7266	
	National	MM74HC7266	
	SGS-Thomson	M74HC7266	
	TI	SN74HC7266	
	Toshiba	**TC74HC7266A**	(3836)
74HC73	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	SGS-Thomson	M74HC73	
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	(3836)
74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	(3836)
74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	(3836)
74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
	Motorola	MC74HC85	
	National	MM74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	(3836)
74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	(3836)
74HC93	Harris	CD74HC93	
♦ 74H00	Rochester	74H00	
♦ 74H01	Rochester	74H01	
♦ 74H05	Rochester	74H05	
♦ 74H08	Rochester	74H08	
♦ 74H101	Rochester	74H101	
♦ 74H102	Rochester	74H102	
♦ 74H103	Rochester	74H103	
♦ 74H106	Rochester	74H106	
♦ 74H108	Rochester	74H108	
♦ 74H11	Rochester	74H11	
♦ 74H20	Rochester	74H20	
♦ 74H21	Rochester	74H21	
♦ 74H22	Rochester	74H22	
♦ 74H30	Rochester	74H30	
♦ 74H40	Rochester	74H40	
♦ 74H50	Rochester	74H50	
♦ 74H51	Rochester	74H51	
♦ 74H52	Rochester	74H52	
♦ 74H53	Rochester	74H53	
♦ 74H54	Rochester	74H54	
♦ 74H55	Rochester	74H55	
♦ 74H60	Rochester	74H60	
♦ 74H61	Rochester	74H61	
♦ 74H62	Rochester	74H62	
♦ 74H71	Rochester	74H71	
♦ 74H72	Rochester	74H72	
♦ 74H73	Rochester	74H73	
♦ 74H74	Rochester	74H74	
♦ 74H76	Rochester	74H76	
♦ 74H78	Rochester	74H78	
♦ 74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	(3674)
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
♦ 74LS00	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
♦ 74LS00	TI	SN74LS00	
♦ 74LS01	**Lansdale**	**SL74LS01**	(3674)
	Motorola	SN74LS01	
	SGS-Thomson	T74LS01	
		74LS01	
♦ 74LS01	TI	SN74LS01	
♦ 74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	(3674)
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
♦ 74LS02	SGS-Thomson	T74LS02	
		74LS02	
♦ 74LS02	TI	SN74LS02	
♦ 74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	(3674)
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
♦ 74LS04	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
♦ 74LS04	TI	SN74LS04	
♦ 74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	(3674)
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
♦ 74LS05	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
♦ 74LS05	TI	SN74LS05	
♦ 74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	(3674)
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
♦ 74LS08	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
♦ 74LS08	TI	SN74LS08	
♦ 74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	(3674)
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
♦ 74LS09	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
♦ 74LS09	TI	SN74LS09	
♦ 74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	(3674)
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
♦ 74LS10	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
♦ 74LS10	TI	SN74LS10	
♦ 74LS107	GoldStar	GD74LS107A	
	Lansdale	**SL74LS107**	(3674)
♦ 74LS107 (Cont'd)	Motorola	SN74LS107A	
	National	DM74LS107A	
	TI	SN74LS107A	
♦ 74LS109	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	(3674)
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
♦ 74LS109	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
♦ 74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	(3674)
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
♦ 74LS11	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
♦ 74LS11	TI	SN74LS11	
♦ 74LS112	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	(3674)
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
♦ 74LS112	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
♦ 74LS113	**Lansdale**	**SL74LS113**	(3674)
	Motorola	SN74LS113A	
	Rochester	74LS113	
	SGS-Thomson	T74LS113A	
	TI	SN74LS113A	
♦ 74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
♦ 74LS125A	**Lansdale**	**SL74LS125**	(3674)
		SL74LS125A	(3674)
♦ 74LS125A	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
♦ 74LS125A	SGS-Thomson	T74LS125A	
		74LS125A	
♦ 74LS125A	TI	SN74LS125A	
♦ 74LS126A	**Lansdale**	**SL74LS126A**	(3674)
	Motorola	SN74LS126A	
	National	DM74LS126	
		74LS126	
♦ 74LS126A	SGS-Thomson	T74LS126A	
		74LS126	
♦ 74LS126A	TI	SN74LS126A	
♦ 74LS13	**Lansdale**	**SL74LS13**	(3674)
	Motorola	SN74LS13	
	National	74LS13	
	SGS-Thomson	T74LS13	
		74LS13	
♦ 74LS13	TI	SN74LS13	
♦ 74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	(3674)
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
♦ 74LS132	SGS-Thomson	T74LS132	
		74LS132	
♦ 74LS132	TI	SN74LS132	
♦ 74LS136	**Lansdale**	**SL74LS136**	(3674)
	Motorola	SN74LS136	
	National	74LS136	
	SGS-Thomson	T74LS136	
		74LS136	
♦ 74LS136	TI	SN74LS136	
♦ 74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	(3674)
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
♦ 74LS138	SGS-Thomson	T74LS138	
		74LS138	
♦ 74LS138	TI	SN74LS138	
♦ 74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	(3674)
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
♦ 74LS139	SGS-Thomson	T74LS139	
		74LS139	
♦ 74LS139	TI	SN74LS139A	
♦ 74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	(3674)
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
♦ 74LS14	SGS-Thomson	T74LS14	
		74LS14	
♦ 74LS14	TI	SN74LS14	
♦ 74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	(3674)
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
♦ 74LS151	SGS-Thomson	T74LS151	
		74LS151	
♦ 74LS151	TI	SN74LS151	
♦ 74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	(3674)
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
♦ 74LS153	SGS-Thomson	T74LS153	
		74LS153	
♦ 74LS153	TI	SN74LS153	
♦ 74LS154	GoldStar	GD74LS154	
	National	DM74LS154	
♦ 74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	(3674)
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
♦ 74LS155	SGS-Thomson	T74LS155	
		74LS155	
♦ 74LS155	TI	SN74LS155A	
♦ 74LS156	**Lansdale**	**SL74LS156**	(3674)
	Motorola	SN74LS156	
	National	DM74LS156	
		74LS156	
♦ 74LS156	SGS-Thomson	T74LS156	
		74LS156	
♦ 74LS156	TI	SN74LS156	
♦ 74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	(3674)
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
♦ 74LS157	SGS-Thomson	T74LS157	
		74LS157	
♦ 74LS157	TI	SN74LS157	
♦ 74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	(3674)
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
♦ 74LS158	Rochester	74LS158	
	SGS-Thomson	T74LS158	
		74LS158	
♦ 74LS158	TI	SN74LS158	
♦ 74LS160A	**Lansdale**	**SL74LS160A**	(3674)
	Motorola	SN74LS160A	
	National	74LS160	
	SGS-Thomson	T74LS160A	
	TI	SN74LS160A	
♦ 74LS161A	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	(3674)
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
♦ 74LS161A	SGS-Thomson	T74LS161A	
	TI	SN74LS161A	
♦ 74LS162A	**Lansdale**	**SL74LS162A**	(3674)
	Motorola	SN74LS162A	
	National	74LS162	
	SGS-Thomson	T74LS162A	
	TI	SN74LS162A	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 74LS163A	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	
			(3674)
	Motorola	SN74LS163A	
	National	DM74LS163A	
		74LS163	
♦ 74LS163A	SGS-Thomson		
		T74LS163A	
	TI	SN74LS163A	
♦ 74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	**(3674)**
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
♦ 74LS164	SGS-Thomson		
		T74LS164	
		74LS164	
♦ 74LS164	TI	SN74LS164	
♦ 74LS169A	**Lansdale**	**SL74LS169A**	
			(3674)
	Motorola	SN74LS169	
	National	DM74LS169A	
		74LS169	
♦ 74LS169A	Rochester	74LS169	
	SGS-Thomson		
		T74LS169	
		74LS169	
♦ 74LS169A	TI	SN74LS169B	
♦ 74LS170	Motorola	SN74LS170	
	National	74LS170	
	SGS-Thomson		
		T74LS170	
		74LS170	
♦ 74LS170	TI	SN74LS170	
♦ 74LS173	**Lansdale**	**SL74LS173**	**(3674)**
	Motorola	SN74LS173A	
	National	74LS173A	
	TI	SN74LS173A	
♦ 74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	**(3674)**
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
♦ 74LS174	SGS-Thomson		
		T74LS174	
		74LS174	
♦ 74LS174	TI	SN74LS174	
♦ 74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	**(3674)**
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
♦ 74LS175	SGS-Thomson		
		T74LS175	
		74LS175	
♦ 74LS175	TI	SN74LS175	
♦ 74LS1801	Lansdale	SL74LS1801	
♦ 74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	**(3674)**
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
♦ 74LS191	SGS-Thomson		
		T74LS191	
		74LS191	
♦ 74LS191	TI	SN74LS191	
♦ 74LS192	**Lansdale**	**SL74LS192**	**(3674)**
	Motorola	SN74LS192	
	National	74LS192	
	SGS-Thomson		
		T74LS192	
		74LS192	
♦ 74LS192	TI	SN74LS192	
♦ 74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	**(3674)**
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
♦ 74LS193	SGS-Thomson		
		T74LS193	
		74LS193	
♦ 74LS193	TI	SN74LS193	
♦ 74LS194	Lansdale	SL74LS194	
♦ 74LS194A	**Lansdale**	**SL74LS194A**	
			(3674)
♦ 74LS197	**Lansdale**	**SL74LS197**	**(3674)**
♦ 74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
	Motorola	SN74LS20	
			(Continued)
♦ 74LS20			(Cont'd)
	National	DM74LS20	
		74LS20	
♦ 74LS20	Rochester	74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
♦ 74LS20	TI	SN74LS20	
♦ 74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
♦ 74LS21	Rochester	74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
♦ 74LS21	TI	SN74LS21	
♦ 74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	**(3674)**
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
♦ 74LS240	SGS-Thomson		
		T74LS240	
		74LS240	
♦ 74LS240	TI	SN74LS240	
♦ 74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	**(3674)**
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
♦ 74LS241	SGS-Thomson		
		T74LS241	
		74LS241	
♦ 74LS241	TI	SN74LS241	
♦ 74LS242	GoldStar	GD74LS242	
	Lansdale	**SL74LS242**	**(3674)**
	Motorola	SN74LS242	
	TI	SN74LS242	
♦ 74LS243	GoldStar	GD74LS243	
	Lansdale	**SL74LS243**	**(3674)**
	Motorola	SN74LS243	
	National	DM74LS243	
	TI	SN74LS243	
♦ 74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	**(3674)**
	Motorola	SN74LS244	
	National	DM74LS244	
		74LS244	
♦ 74LS244	SGS-Thomson		
		T74LS244	
		74LS244	
♦ 74LS244	TI	SN74LS244	
♦ 74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
♦ 74LS245	Rochester	74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
♦ 74LS245	TI	SN74LS245	
♦ 74LS251	**Lansdale**	**SL74LS251**	**(3674)**
♦ 74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
♦ 74LS253	Rochester	74LS253	
	SGS-Thomson		
		T74LS253	
		74LS253	
♦ 74LS253	TI	SN74LS253	
♦ 74LS256	**Lansdale**	**SL74LS256**	**(3674)**
	Motorola	SN74LS256	
	National	74LS256	
	SGS-Thomson		
		T74LS256	
		74LS256	
♦ 74LS257A	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	
			(3674)
	Motorola	SN74LS257A	
		SN74LS257B	
♦ 74LS257A	National	DM74LS257B	
		74LS257	
♦ 74LS257A	Rochester	74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
♦ 74LS257A	TI	SN74LS257B	
♦ 74LS258A	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	
			(3674)
	Motorola	SN74LS258A	
		SN74LS258B	
♦ 74LS258A	National	DM74LS258B	
		74LS258	
♦ 74LS258A	Rochester	74LS258	
	SGS-Thomson		
		T74LS258A	
		74LS258	
♦ 74LS258A	TI	SN74LS258B	
♦ 74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
♦ 74LS259	Rochester	74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
♦ 74LS259	TI	SN74LS259B	
♦ 74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
♦ 74LS26	Rochester	74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
♦ 74LS26	TI	SN74LS26	
♦ 74LS260	Motorola	SN74LS260	
	National	74LS260	
	SGS-Thomson		
		T74LS260	
		74LS260	
♦ 74LS266	**Lansdale**	**SL74LS266**	**(3674)**
	Motorola	SN74LS266	
	National	74LS266	
	SGS-Thomson		
		T74LS266	
		74LS266	
♦ 74LS266	TI	SN74LS266	
♦ 74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
♦ 74LS27	Rochester	74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
♦ 74LS27	TI	SN74LS27	
♦ 74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	**(3674)**
	Motorola	SN74LS273	
	National	74LS273	
	SGS-Thomson		
		T74LS273	
		74LS273	
♦ 74LS273	TI	SN74LS273	
♦ 74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	**(3674)**
	Motorola	SN74LS283	
	National	DM74LS283	
		74LS283	
♦ 74LS283	SGS-Thomson		
		T74LS283	
		74LS283	
♦ 74LS283	TI	SN74LS283	
♦ 74LS290	Motorola	SN74LS290	
	National	DM74LS290	
		74LS290	
♦ 74LS290	SGS-Thomson		
		T74LS290	
	TI	SN74LS290	
♦ 74LS293	Motorola	SN74LS293	
	National	DM74LS293	
		74LS293	
♦ 74LS293	SGS-Thomson		
		T74LS293	
		74LS293	
♦ 74LS293	TI	SN74LS292	
		SN74LS293	
♦ 74LS295B	**Lansdale**	**SL74LS295B**	
			(3674)
♦ 74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	**(3674)**
	Motorola	SN74LS298	
	National	74LS298	
			(Continued)
♦ 74LS298			(Cont'd)
	SGS-Thomson		
		T74LS298	
		74LS298	
♦ 74LS298	TI	SN74LS297	
		SN74LS298	
♦ 74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
♦ 74LS30	Rochester	74LS30	
	SGS-Thomson		
		T74LS30	
		74LS30	
♦ 74LS30	TI	SN74LS30	
♦ 74LS301	**Lansdale**	**SL74LS301**	**(3674)**
♦ 74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
♦ 74LS32	Rochester	74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
♦ 74LS32	TI	SN74LS31	
		SN74LS32	
♦ 74LS33	**Lansdale**	**SL74LS33**	**(3674)**
	Motorola	SN74LS33	
	National	74LS33	
	SGS-Thomson		
		T74LS33	
		74LS33	
♦ 74LS33	TI	SN74LS33	
♦ 74LS352	**Lansdale**	**SL74LS352**	**(3674)**
	Motorola	SN74LS352	
	National	DM74LS352	
		74LS352	
♦ 74LS352	SGS-Thomson		
		T74LS352	
		74LS352	
♦ 74LS352	TI	SN74LS352	
♦ 74LS353	**Lansdale**	**SL74LS353**	**(3674)**
	Motorola	SN74LS353	
	National	74LS353	
	SGS-Thomson		
		T74LS353	
		74LS353	
♦ 74LS353	TI	SN74LS353	
♦ 74LS365A	**Lansdale**	**SL74LS365A**	
			(3674)
	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
♦ 74LS365A	Rochester	74LS365	
	SGS-Thomson		
		T74LS365A	
		74LS365A	
♦ 74LS365A	TI	SN74LS365A	
♦ 74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	
			(3674)
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
♦ 74LS366A	SGS-Thomson		
		T74LS366A	
		74LS366A	
♦ 74LS366A	TI	SN74LS366A	
♦ 74LS367A	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A	
		74LS367	
♦ 74LS367A	Rochester	74LS367	
	SGS-Thomson		
		T74LS367A	
		74LS367A	
♦ 74LS367A	TI	SN74LS367A	
♦ 74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	
			(3674)
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
♦ 74LS368A	Rochester	74LS368	
	SGS-Thomson		
		T74LS368A	
		74LS368A	
♦ 74LS368A	TI	SN74LS368A	
♦ 74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37	
		74LS37	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 74LS37	Rochester	74LS37	
	SGS-Thomson		
		T74LS37	
		74LS37	
♦ 74LS37	TI	SN74LS37	
♦ 74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	Motorola	SN74LS373	
	National	DM74LS373	
		74LS373	
♦ 74LS373	SGS-Thomson		
		T74LS373	
		74LS373	
♦ 74LS373	TI	SN74LS373	
♦ 74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	DM74LS374	
		74LS374	
♦ 74LS374	SGS-Thomson		
		T74LS374	
		74LS374	
♦ 74LS374	TI	SN74LS374	
♦ 74LS375	**Lansdale**	**SL74LS375**	**(3674)**
♦ 74LS377	GoldStar	GD74LS377	
	Lansdale	**SL74LS377**	**(3674)**
	Motorola	SN74LS377	
	National	74LS377	
	SGS-Thomson		
		T74LS377	
		74LS377	
♦ 74LS377	TI	SN74LS377	
♦ 74LS378	**Lansdale**	**SL74LS378**	**(3674)**
	Motorola	SN74LS378	
	National	74LS378	
	SGS-Thomson		
		T74LS378	
		74LS378	
♦ 74LS378	TI	SN74LS378	
♦ 74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	
♦ 74LS38	Rochester	74LS38	
	SGS-Thomson		
		T74LS38	
		74LS38	
♦ 74LS38	TI	SN74LS38	
♦ 74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson		
		T74LS390	
		74LS390	
♦ 74LS390	TI	SN74LS390	
♦ 74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	DM74LS393	
		74LS393	
♦ 74LS393	SGS-Thomson		
		T74LS393	
		74LS393	
♦ 74LS393	TI	SN74LS393	
♦ 74LS395A	GoldStar	GD74LS395	
	Lansdale	**SL74LS395A**	**(3674)**
	Motorola	SN74LS395	
	National	74LS395	
	SGS-Thomson		
		T74LS395A	
		74LS395	
♦ 74LS395A	TI	SN74LS395A	
♦ 74LS490	**Lansdale**	**SL74LS490**	**(3674)**
	Motorola	SN74LS490	
	National	74LS490	
	SGS-Thomson		
		T74LS490	
		74LS490	
♦ 74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
♦ 74LS51	Rochester	74LS51	
	SGS-Thomson		
		T74LS51	
		74LS51	
♦ 74LS51	TI	SN74LS51	
♦ 74LS533	**Lansdale**	**SL74LS533**	**(3674)**
♦ 74LS534	**Lansdale**	**SL74LS534**	**(3674)**
♦ 74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	Motorola	SN74LS54	
	National	74LS54	
	SGS-Thomson		
		T74LS54	
		74LS54	
♦ 74LS54	TI	SN74LS54	
♦ 74LS540	**Lansdale**	**SL74LS540**	**(3674)**
	Motorola	SN74LS540	
	National	74LS540	
	SGS-Thomson		
		T74LS540	
	TI	SN74LS540	
♦ 74LS541	**Lansdale**	**SL74LS541**	**(3674)**
	Motorola	SN74LS541	
	SGS-Thomson		
		T74LS541	
	TI	SN74LS541	
♦ 74LS569A	**Lansdale**	**SL74LS569A**	**(3674)**
♦ 74LS620	**Lansdale**	**SL74LS620**	**(3674)**
	TI	SN74LS613	
♦ 74LS621	**Lansdale**	**SL74LS621**	**(3674)**
♦ 74LS622	**Lansdale**	**SL74LS622**	**(3674)**
♦ 74LS623	**Lansdale**	**SL74LS623**	**(3674)**
	Motorola	SN74LS623	
	Rochester	74LS623	
	TI	SN74LS623	
♦ 74LS640	GoldStar	GD74LS640	
		GD74LS640-1	
♦ 74LS640	**Lansdale**	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
♦ 74LS640	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
♦ 74LS640-1	GoldStar	GD74LS640	
		GD74LS640-1	
♦ 74LS640-1	**Lansdale**	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
♦ 74LS640-1	Motorola	SN74LS640	
	TI	SN74LS640	
		SN74LS640-1	
♦ 74LS641	**Lansdale**	**SL74LS641**	**(3674)**
		SL74LS641-1	**(3674)**
♦ 74LS641	Motorola	SN74LS641	
	TI	SN74LS641	
		SN74LS641-1	
♦ 74LS641-1	**Lansdale**	**SL74LS641**	**(3674)**
		SL74LS641-1	**(3674)**
♦ 74LS641-1	Motorola	SN74LS641	
	TI	SN74LS641	
		SN74LS641-1	
♦ 74LS642	**Lansdale**	**SL74LS642**	**(3674)**
		SL74LS642-1	**(3674)**
♦ 74LS642	Motorola	SN74LS642	
	TI	SN74LS642	
		SN74LS642-1	
♦ 74LS642-1	**Lansdale**	**SL74LS642**	**(3674)**
		SL74LS642-1	**(3674)**
♦ 74LS642-1	Motorola	SN74LS642	
	TI	SN74LS642	
		SN74LS642-1	
♦ 74LS645	**Lansdale**	**SL74LS645**	**(3674)**
		SL74LS645-1	**(3674)**
♦ 74LS645	Motorola	SN74LS645	
	SGS-Thomson		
		T74LS645	
	TI	SN74LS645	
		SN74LS645-1	
♦ 74LS645-1	**Lansdale**	**SL74LS645**	**(3674)**
		SL74LS645-1	**(3674)**
♦ 74LS645-1	Motorola	SN74LS645	
	SGS-Thomson		
		T74LS645	
	TI	SN74LS645	
		SN74LS645-1	
♦ 74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
♦ 74LS670			(Cont'd)
	National	DM74LS670	
		74LS670	
♦ 74LS670	Rochester	74LS670	
	SGS-Thomson		
		T74LS670	
		74LS670	
♦ 74LS670	TI	SN74LS670	
♦ 74LS73	GoldStar	GD74LS73A	
	Lansdale	**SL74LS73**	**(3674)**
	Motorola	SN74LS73A	
	National	DM74LS73A	
	TI	SN74LS73A	
♦ 74LS74A	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74	
		74LS74	
♦ 74LS74A	Rochester	74LS74	
	SGS-Thomson		
		T74LS74A	
		74LS74	
♦ 74LS74A	TI	SN74LS74A	
♦ 74LS75	**Lansdale**	**SL74LS75**	**(3674)**
♦ 74LS76	**Lansdale**	**SL74LS76**	**(3674)**
	Motorola	SN74LS76A	
	SGS-Thomson		
		T74LS75B1	
	TI	SN74LS76A	
♦ 74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A	
		74LS83	
♦ 74LS83A	Rochester	74LS83	
	SGS-Thomson		
		T74LS83A	
		74LS83A	
♦ 74LS83A	TI	SN74LS83A	
♦ 74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
♦ 74LS85	National	DM74LS85	
		74LS85	
♦ 74LS85	Rochester	74LS85	
	TI	SN74LS85	
♦ 74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
♦ 74LS86	Rochester	74LS86	
	SGS-Thomson		
		T74LS86	
		74LS86	
♦ 74LS86	TI	SN74LS86A	
♦ 74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson		
		T74LS90	
		74LS90	
♦ 74LS90	TI	SN74LS90	
♦ 74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	SGS-Thomson		
		T74LS92	
	TI	SN74LS92	
♦ 74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson		
		T74LS93	
		74LS93	
♦ 74LS93	TI	SN74LS93	
♦ 74LS95B	**Lansdale**	**SL74LS95B**	**(3674)**
♦ 74LS96	**Lansdale**	**SL74LS96**	**(3674)**
	TI	SN74LS96	
74LVC00	TI	SN74LVC00	
74LVC02	TI	SN74LVC02	
74LVC04	TI	SN74LVC04	
74LVC08	TI	SN74LVC08	
74LVC125	TI	SN74LVC125	
74LVC157	TI	SN74LVC157	
74LVC240	TI	SN74LVC240	
74LVC241	Philips	74LVC244	
	TI	SN74LVC244	
74LVC244	Philips	74LVC241	
	TI	SN74LVC244	
74LVC245	TI	SN74LVC245	
74LVC32	TI	SN74LVC32	
74LVC373	TI	SN74LVC373	
74LVC374	TI	SN74LVC374	
74LVC38	TI	SN74LVC540	
74LVC543	TI	SN74LVC541	
		SN74LVC543	
74LVC573	TI	SN74LVC573	
74LVC574	TI	SN74LVC574	
74LVC620	Philips	74LVC623	
74LVC623	Philips	74LVC620	
74LVC640	Philips	74LVC646	
	TI	SN74LVC646	
74LVC646	Philips	74LVC640	
	TI	SN74LVC646	
74LVC648	Philips	74LVC651	
74LVC651	Philips	74LVC648	
74LVC652	TI	SN74LVC652	
74LVC74	TI	SN74LVC74	
74LVC86	TI	SN74LVC843	
		SN74LVC86	
74LV00	TI	SN74LV00	
	Toshiba	**TC74LVX86**	**(3837)**
74LV02	TI	SN74LV02	
74LV04	TI	SN74LV04	
74LV08	TI	SN74LV08	
74LV125	Philips	74LV138	
	TI	SN74LV138	
74LV138	Philips	74LV125	
	TI	SN74LV138	
74LV139	Philips	74LV14	
	TI	SN74LV14	
74LV14	Philips	74LV139	
	TI	SN74LV14	
74LV157	Philips	74LV164	
	TI	SN74LV164	
74LV164	Philips	74LV157	
	TI	SN74LV164	
74LV174	TI	SN74LV174	
74LV240	TI	SN74LV240	
74LV244	TI	SN74LV244	
74LV245	TI	SN74LV245	
74LV259	Philips	74LV273	
	TI	SN74LV273	
74LV273	Philips	74LV259	
	TI	SN74LV273	
74LV32	TI	SN74LV32	
74LV365	Philips	74LV368	
74LV368	Philips	74LV365	
74LV373	TI	SN74LV373	
74LV374	TI	SN74LV374	
74LV377	Philips	74LV4051	
74LV4051	Philips	74LV377	
74LV4052	Philips	74LV4053	
74LV4053	Philips	74LV4052	
74LV4060	Philips	74LV4066	
74LV4066	Philips	74LV4060	
74LV4094	Philips	74LV4316	
74LV4316	Philips	74LV4094	
74LV4799	Philips	74LV541	
74LV541	Philips	74LV4799	
74LV573	TI	SN74LV573	
74LV574	TI	SN74LV574	
74LV74	TI	SN74LV74	
74LV86	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	**(3674)**
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
	Rochester	74LS00	
	SGS-Thomson		
		T74LS00	
		74LS00	
	TI	SN74LS00	
♦ 74S00	GoldStar	GD74S00	
	Lansdale	**SL74S00**	**(3675)**
	National	DM74S00	
		74S00	
♦ 74S00	TI	SN74S00	
♦ 74S02	GoldStar	GD74S02	
	Lansdale	**SL74S02**	**(3675)**
	National	DM74S02	
		74S02	
♦ 74S02	TI	SN74S02	
♦ 74S03	**Lansdale**	**SL74S03**	**(3675)**
	National	DM74S03	
		74S03	
♦ 74S03	Rochester	74S03	
	TI	SN74S03	
♦ 74S04	GoldStar	GD74S04	
	Lansdale	**SL74S04**	**(3675)**

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 74S04			(Cont'd)
	National	DM74S04	
		74S04	
♦ 74S04	Rochester	74S04	
	TI	SN74S04	
♦ 74S05	GoldStar	GD74S05	
	Lansdale	**SL74S05**	**(3675)**
	National	DM74S05	
		74S05	
♦ 74S05	Rochester	74S05	
	TI	SN74S05	
♦ 74S08	GoldStar	GD74S08	
	Lansdale	**SL74S08**	**(3675)**
	National	DM74S08	
		74S08	
♦ 74S08	TI	SN74S08	
♦ 74S10	GoldStar	GD74S10	
	Lansdale	**SL74S10**	**(3675)**
	National	DM74S10	
		74S10	
♦ 74S10	TI	SN74S10	
♦ 74S11	**Lansdale**	**SL74S11**	**(3675)**
	National	DM74S11	
		74S109	
		74S11	
♦ 74S11	Rochester	74S11	
	TI	SN74S11	
♦ 74S133	GoldStar	GD74S133	
	Lansdale	**SL74S133**	**(3675)**
	National	DM74S133	
		74S133	
♦ 74S133	Rochester	74S133	
	TI	SN74S133	
♦ 74S134	**Lansdale**	**SL74S134**	**(3675)**
	Rochester	74S134	
	TI	SN74S134	
♦ 74S138	GoldStar	GD74S138	
	Lansdale	**SL74S138**	**(3675)**
	National	DM74S138	
		74S138	
♦ 74S138	TI	SN74S138	
♦ 74S139	GoldStar	GD74S139	
	Lansdale	**SL74S139**	**(3675)**
	National	DM74S139	
		74S139	
♦ 74S139	Rochester	74S139	
	TI	SN74S139	
♦ 74S140	**Lansdale**	**SL74S140**	**(3675)**
	National	DM74S140	
	TI	SN74S140	
♦ 74S151	**Lansdale**	**SL74S151**	**(3675)**
	National	DM74S151	
		74S151	
♦ 74S151	Rochester	74S151	
	TI	SN74S151	
♦ 74S153	GoldStar	GD74S153	
	Lansdale	**SL74S153**	**(3675)**
	National	DM74S153	
		74S153	
♦ 74S153	Rochester	74S153	
	TI	SN74S153	
♦ 74S157	GoldStar	GD74S157	
	Lansdale	**SL74S157**	**(3675)**
	National	DM74S157	
		74S157	
♦ 74S157	Rochester	74S157	
	TI	SN74S157	
♦ 74S158	GoldStar	GD74S158	
	Lansdale	**SL74S158**	**(3675)**
	National	DM74S158	
		74S158	
♦ 74S158	Rochester	74S158	
	TI	SN74S158	
♦ 74S174	GoldStar	GD74S174	
	Lansdale	**SL74S174**	**(3675)**
	National	DM74S174	
		74S174	
♦ 74S174	Rochester	74S174	
	TI	SN74S174	
♦ 74S175	GoldStar	GD74S175	
	Lansdale	**SL74S175**	**(3675)**
	National	DM74S175	
		74S175	
♦ 74S175	TI	SN74S175	
♦ 74S181	**Lansdale**	**SL74S181**	**(3675)**
	TI	SN74S181	
♦ 74S189	Cypress	CY74S189-35C	
	Lansdale	**SL74S189**	**(3675)**
	National	DM74S189	
		DM74S189A	
♦ 74S195	**Lansdale**	**SL74S195**	**(3675)**
	National	DM74S195	
	TI	SN74S195	
♦ 74S20	GoldStar	GD74S20	
	Lansdale	**SL74S20**	**(3675)**
	National	DM74S20	
		74S20	
♦ 74S20	Rochester	74S20	
	TI	SN74S20	
♦ 74S225	**Lansdale**	**SL74S225**	**(3675)**
	TI	SN74S225	
♦ 74S240	GoldStar	GD74S240	
	Lansdale	**SL74S240**	**(3675)**
	National	DM74S240	
	TI	SN74S240	
♦ 74S241	GoldStar	GD74S241	
	Lansdale	**SL74S241**	**(3675)**
	National	DM74S241	
	TI	SN74S241	
♦ 74S244	GoldStar	GD74S244	
	Lansdale	**SL74S244**	**(3675)**
	TI	SN74S244	
♦ 74S251	GoldStar	GD74S251	
	Lansdale	**SL74S251**	**(3675)**
	National	DM74S251	
	TI	SN74S251	
♦ 74S253	**Lansdale**	**SL74S253**	**(3675)**
	National	DM74S253	
		74S253	
♦ 74S253	TI	SN74S253	
♦ 74S257	GoldStar	GD74S257	
	Lansdale	**SL74S257**	**(3675)**
	National	DM74S257	
		74S257	
♦ 74S257	Rochester	74S257	
	TI	SN74S257	
♦ 74S258	**Lansdale**	**SL74S258**	**(3675)**
	National	DM74S258	
		74S258	
♦ 74S258	Rochester	74S258	
	TI	SN74S258	
♦ 74S260	**Lansdale**	**SL74S260**	**(3675)**
	Rochester	74S260	
	TI	SN74S260	
♦ 74S273	**Lansdale**	**SL74S273**	**(3675)**
♦ 74S280	GoldStar	GD74S280	
	Lansdale	**SL74S280**	**(3675)**
	National	DM74S280	
	TI	SN74S280	
♦ 74S301	**Lansdale**	**SL74S301**	**(3675)**
♦ 74S32	GoldStar	GD74S32	
	Lansdale	**SL74S32**	**(3675)**
	National	DM74S32	
		74S32	
♦ 74S32	TI	SN74S32	
♦ 74S37	**Lansdale**	**SL74S37**	**(3675)**
	TI	SN74S37	
♦ 74S373	**Lansdale**	**SL74S373**	**(3675)**
	National	DM74S373	
	TI	SN74S373	
♦ 74S374	GoldStar	GD74S374	
	Lansdale	**SL74S374**	**(3675)**
	National	DM74S374	
	TI	SN74S374	
♦ 74S38	**Lansdale**	**SL74S38**	**(3675)**
	TI	SN74S38	
♦ 74S40	**Lansdale**	**SL74S40**	**(3675)**
	National	DM74S40	
		74S40	
♦ 74S40	TI	SN74S40	
♦ 74S51	GoldStar	GD74S51	
	Lansdale	**SL74S51**	**(3675)**
	National	DM74S51	
		74S51	
♦ 74S51	TI	SN74S482	
		SN74S51	
♦ 74S534	AMD	AM74S534	
	Lansdale	**SL74S534**	**(3675)**
♦ 74S64	GoldStar	GD74S64	
	Lansdale	**SL74S64**	**(3675)**
	National	DM74S64	
		74S64	
♦ 74S64	Rochester	74S64	
	TI	SN74S64	
♦ 74S74	GoldStar	GD74S74	
	Lansdale	**SL74S74**	**(3675)**
	National	DM74S74	
		74S74	
♦ 74S74	Rochester	74S74	
	TI	SN74S74	
♦ 74S85	GoldStar	GD74S85	
	Lansdale	**SL74S85**	**(3675)**
	TI	SN74S85	
♦ 74S86	GoldStar	GD74S86	
	Lansdale	**SL74S86**	**(3675)**
	National	DM74S86	
		74S86	
♦ 74S86	Rochester	74S86	
	TI	SN74S86	
♦ 7400	Lansdale	SL7400	
	Rochester	7400	
♦ 7402	Rochester	7402	
♦ 7403	Lansdale	SL7403	
	Rochester	7403	
♦ 7404	Lansdale	SL7404	
♦ 7405	Lansdale	SL7405	
	Rochester	7405	
♦ 7406	Lansdale	SL7406	
	Rochester	7406	
♦ 7407	Lansdale	SL7407	
	Rochester	7407	
♦ 7408	Lansdale	SL7408	
	Rochester	7408	
♦ 7410	Lansdale	SL7410	
	Rochester	7410	
♦ 74107	Rochester	74107	
♦ 74121	Lansdale	SL74121	
	Rochester	74121	
♦ 74123	Lansdale	SL74123	
	Rochester	74123	
♦ 74125	Lansdale	SL74125	
	Rochester	74125	
♦ 74126	Lansdale	SL74126	
	Rochester	74126	
♦ 7413	Rochester	7413	
♦ 74132	Rochester	74132	
♦ 7414	Lansdale	SL7414	
	Rochester	7414	
♦ 74141	Rochester	74141	
♦ 74145	Lansdale	SL74145	
	Rochester	74145	
♦ 74148	Rochester	74148	
♦ 74150	Lansdale	SL74150	
	Rochester	74150	
♦ 74153	Rochester	74153	
♦ 74154	Lansdale	SL74154	
♦ 74155	Rochester	74155	
♦ 74156	Lansdale	ML74156	
	Rochester	74156	
♦ 74157	Lansdale	SL74157	
	Rochester	74157	
♦ 74158	Lansdale	SL74158	
♦ 7416	Lansdale	SL7416	
	Rochester	7416	
♦ 74160	Rochester	74160	
♦ 74161	Rochester	74161	
♦ 74163	Rochester	74163	
♦ 74164	Lansdale	SL74164	
	Rochester	74164	
♦ 74165	Rochester	74165	
♦ 74166	Lansdale	SL74166	
	Rochester	74166	
♦ 7417	Lansdale	SL7417	
	Rochester	7417	
♦ 74174	Lansdale	SL74174	
	Rochester	74174	
♦ 74175	Lansdale	SL74175	
	Rochester	74175	
♦ 74176	Rochester	74176	
♦ 74177	Rochester	74177	
♦ 74179	Rochester	74179	
♦ 74180	Rochester	74181	
♦ 74181	Rochester	74181	
♦ 74190	Rochester	74190	
♦ 74192	Lansdale	SL74192	
	Rochester	74192	
♦ 74193	Lansdale	SL74193	
	Rochester	74193	
♦ 74194	Lansdale	SL74194	
	Rochester	74194	
♦ 74195	Rochester	74195	
♦ 74196	Rochester	74196	
♦ 74198	Rochester	74198	
♦ 74199	Lansdale	SL74199	
	Rochester	74199	
♦ 7420	Lansdale	SL7420	
	Rochester	7420	
♦ 7425	Lansdale	SL7425	
♦ 7426	Lansdale	SL7426	
♦ 7430	Rochester	7430	
♦ 7432	Lansdale	SL7432	
	Rochester	7432	
♦ 7433	Lansdale	SL7433	
♦ 74365A	Lansdale	SL74365A	
♦ 74366A	Lansdale	SL74366A	
♦ 74367A	Lansdale	SL74367A	
♦ 74368A	Lansdale	SL74368A	
♦ 7437	Lansdale	SL7437	
	Rochester	7437	
♦ 7438	Lansdale	SL7438	
	Rochester	7438	
♦ 7439	Lansdale	SL7439	
♦ 7440	Lansdale	SL7440	
	Rochester	7440	
♦ 7442	Rochester	7442	
♦ 7445	Lansdale	SL7445	
	Rochester	7445	
♦ 7450	Rochester	7450	
♦ 7451	Lansdale	SL7451	
♦ 7460	Rochester	7460	
♦ 7472	Rochester	7472	
♦ 7473	Rochester	7473	
♦ 7474	Lansdale	SL7474	
	Rochester	7474	
♦ 7475	Rochester	7475	
♦ 7476	Rochester	7476	
♦ 7483	Rochester	7483	
♦ 7485	Lansdale	SL7485	
	Rochester	7485	
♦ 7486	Lansdale	SL7486	
	Rochester	7486	
7490	Rochester	7490A	
♦ 7490	Lansdale	SL7490	
	Rochester	7490	
♦ 7491	Rochester	7491	
♦ 7492	Lansdale	SL7492	
	Rochester	7492	
♦ 7493	Lansdale	SL7493	
	Rochester	7493	
♦ 7495	Rochester	7495	
♦ 7496	Rochester	7496	
75S107	National	DS75107	
75S108	National	DS75108	
75S208	National	DS75208	
♦ 8X02A	Lansdale	SL8X02A	
♦ 8X310	Lansdale	SL8X310	
♦ 8X320	Lansdale	SL8X320	
♦ 8X350	Lansdale	SL8X350	
♦ 8X371	Lansdale	SL8X371	
♦ 8X372	Lansdale	SL8X372	
♦ 8X376	Lansdale	SL8X376	
♦ 8X401	Lansdale	SL8X401	
♦ 8X41	Lansdale	SL8X41	
♦ 8X60	Lansdale	SL8X60	
♦ 8X801	Lansdale	SL8X801	
♦ 8X801A	Lansdale	SL8X801A	
80C31	Intel	P80C31	
80C451	Hitachi	HD647180	
♦ 82HS147	Lansdale	HL7649	
♦ 82HS191	Lansdale	HL76161	
82HS195	AMD	AM27S41	
		27S41	
		63S1641	
	Fujitsu	7152E	
	National	DM87S195	
		87S195A	
	TI	TBP34L162	
		TBP34SA162	
		TBP34S162	
82HS195A	AMD	27S41A	
		63S1641A	
	Fujitsu	7152H	
	National	87S195B	
82HS321	AMD	AM27S43	
		PLE12P8	
		27S43A	
		63S3281A	
	Fujitsu	7142H	
	National	DM87S321	
82HS641	AMD	AM27S49	
		63S6481	
	Fujitsu	MB7144E-W	
	Microchip	27HC641	
	National	93Z65	
		93Z665	
		93Z667	
82LS135	National	DM74LS471	
♦ 82LS181	Lansdale	SL82LS181	
82S123	AMD	AM27S19	
		PLE5P8	
		63S081	
	National	DM74S288	
	TI	TBP18S030	
		TBP38S032	
♦ 82S123	Lansdale	HL7603	

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♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Philips Semiconductors (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
82S126	AMD	AM27S20	
		PLE8P4	
		63S140	
		63S141	
	National	DM74S387	
	TI	TBP24SA10	
		TBP34SA10	
		TBP34SA12	
♦82S126	Lansdale	HL7610	
82S129	AMD	AM27S21	
	National	74S287	
	TI	TBP24S10	
		TBP34L10	
		TBP34L12	
		TBP34S10	
		TBP34S12	
♦82S129	Lansdale	HL7611	
82S130	National	DM74S570	
82S131	AMD	AM27S16	
	National	DM74S571	
♦82S131	Lansdale	HL7621	
82S135	TI	TBP28LA22	
		TBP28L22	
		TBP38L22	
		TBP38SA22	
		TBP38S22	
♦82S136	Lansdale	HL7642	
82S137	AMD	AM27S33	
		PLE10P4	
		27S33	
		63S441	
	Fujitsu	7122E	
	National	DM74S573	
		74S573	
	TI	TBP24SA41	
		TBP24S41	
		TBP34SA41	
		TBP34S41	
♦82S137	Lansdale	HL7643	
82S137A	AMD	AM27S33A	
		63S441A	
	Fujitsu	7122H	
	National	74S573A	
82S137B	Fujitsu	7122Y	
	National	74S573B	
82S141	AMD	AM27S31	
		63S485	
	National	DM74S474	
	TI	TBP28L46	
		TBP28SA46	
		TBP28S46	
♦82S141	Lansdale	HL7641	
82S147	AMD	AM27S29	
		PLE9P8	
		63S481	
	National	DM74S472	
	TI	TBP28L42	
		TBP28SA42	
		TBP28S42	
		TBP34S42	
♦82S147	Lansdale	HL7649	
82S181	AMD	AM27S181	
		AM27S81	
		PLE10P8	
		27S181	
		63S881	
	Fujitsu	7132E	
	National	DM87S181	
		DM87S281	
		87S181	
		93Z451	
	TI	TBP28L86	
		TBP28SA86	
		TBP28S2708	
		TBP28S86	
		TBP38S86	
♦82S181	Lansdale	HL7681	
82S181A	AMD	27S181A	
		63S881A	
	Fujitsu	7132H	
	National	87S181A	
82S185	AMD	AM27S185	
		PLE11P4	
		27S185	
		63S841	
	Fujitsu	7128E	
	National	DM87S185	
		87S185	
			(Continued)
82S185			(Cont'd)
	TI	TBP24S81	
		TBP38S85	
♦82S185	Lansdale	HL7685	
82S185A	AMD	27S185A	
		63S841A	
	Fujitsu	7128H	
	National	87S185A	
82S191	AMD	AM27S191	
		AM27S291	
		PLE11P8	
		63S1681	
	National	DM87S191	
		DM87S291	
		93Z511	
		93Z611	
	TI	TBP28S166	
		TBP38SA165	
		TBP38SA166	
		TBP38SA167	
		TBP38S167	
♦82S191	Lansdale	HL76161	
♦82S195	Lansdale	HL76165	
82S23	AMD	AM27S18	
	National	DM74S188	
	TI	TBP18SA030	
		TBP38SA030	
		TBP38SA032	
♦82S23	Lansdale	HL7602	
♦82S321	Lansdale	HL76321	
♦82S41	Lansdale	SL82S41	
♦82S52	Lansdale	SL82S52	
♦82S82	Lansdale	SL82S82	
♦82S83	Lansdale	SL82S83	
♦8470	**Lansdale**	**ML7410**	**(3668)**
♦8481	**Lansdale**	**ML7403**	**(3668)**
♦8490	**Lansdale**	**ML7404**	**(3668)**
87S185B	Fujitsu	7128Y	
	National	87S185B	
♦8881	**Lansdale**	**ML7401**	**(3668)**
		SL7401	
♦9309	Lansdale	SL9309	
♦9324	Lansdale	SL9324	
♦9334	Lansdale	SL9334	

Quality Semiconductor, Inc.

Manufacturer Device	Replacement Source	Device	IC Master Page
QS29FCT52	Harris	CD74FCT2952	
	IDT	IDT29FCT52	
	Performance	P29FCT52	
		P29PCT52	
	Philips	74ABT2952	
	TI	SN74ABT2952	
		SN74BCT2952	
QS29FCT520	Harris	CD74FCT29520	
	IDT	IDT29FCT520	
	Performance	P29FCT520	
		P29PCT520	
QS29FCT521	Harris	CD74FCT29521	
	IDT	IDT29FCT521	
	Performance	P29FCT521	
		P29PCT521	
QS29FCT53	Harris	CD74FCT2953	
	IDT	IDT29FCT53	
	Performance	P29FCT53	
	Philips	74ABT2953	
	TI	SN74ABT2953	
		SN74BCT2953	
QS7201	AMD	AM7201	
	Cypress	CY7C421	
	Ideal Semi	ISI77201	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Samsung	KM75C01	
	SGS-Thomson	MK4501	
	Sharp	LH5496	
QS7202	AMD	AM7202	
		AM7202A	
	Cypress	CY7C425	
	Ideal Semi	ISI77202	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Samsung	KM75C02	
	Sharp	LH5497	
QS7203	AMD	AM7203	
		AM7203A	
	Cypress	CY7C429	
	Ideal Semi	ISI77203	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	MS7203	
	Samsung	KM75C03A	
			(Continued)
QS7203			(Cont'd)
	SGS-Thomson	MK4503	
	Sharp	LH5498	
		LH5498A	
QS7204	AMD	AM7204	
		AM7204A	
	Cypress	CY7C433	
	Ideal Semi	ISI77204	
	IDT	IDT7204	
	Sharp	LH5499	
		LH5499A	
QS7211	Ideal Semi	ISI77211	
QS7223	Ideal Semi	ISI77223	
QS74FCT138	IDT	IDT74FCT138	
QS74FCT139	IDT	IDT74FCT139	
QS74FCT240	Harris	CD74FCT240	
	IDT	IDT74FCT240	
QS74FCT241	Harris	CD74FCT241	
	IDT	IDT74FCT241	
QS74FCT244	Harris	CD74FCT244	
	IDT	IDT74FCT244	
QS74FCT245	Harris	CD74FCT245	
	IDT	IDT74FCT245	
QS74FCT273	Harris	CD74FCT273	
	IDT	IDT74FCT273	
QS74FCT373	Harris	CD74FCT373	
	IDT	IDT74FCT373	
QS74FCT374	Harris	CD74FCT374	
	IDT	IDT74FCT374	
QS74FCT377	Harris	CD74FCT377	
	IDT	IDT74FCT377	
QS74FCT521	IDT	IDT74FCT521	
QS74FCT533	Harris	CD74FCT533	
	IDT	IDT74FCT533	
QS74FCT534	Harris	CD74FCT534	
	IDT	IDT74FCT534	
QS74FCT540	Harris	CD74FCT540	
	IDT	IDT74FCT540	
QS74FCT541	Harris	CD74FCT541	
	IDT	IDT74FCT541	
QS74FCT543	Harris	CD74FCT543	
	IDT	IDT74FCT543	
QS74FCT544	Harris	CD74FCT544	
QS74FCT573	Harris	CD74FCT573	
	IDT	IDT74FCT573	
QS74FCT574	Harris	CD74FCT574	
	IDT	IDT74FCT574	
QS74FCT646	Harris	CD74FCT646	
	IDT	IDT74FCT646	
QS74FCT648	Harris	CD74FCT648	
	IDT	IDT74FCT648	
QS74FCT651	Harris	CD74FCT651	
	IDT	IDT74FCT651	
QS74FCT652	Harris	CD74FCT652	
	IDT	IDT74FCT652	
QS74FCT821	Harris	CD74FCT821	
	IDT	IDT74FCT821	
QS74FCT823	Harris	CD74FCT823	
	IDT	IDT74FCT823	
QS74FCT825	IDT	IDT74FCT825	
QS74FCT827	Harris	CD74FCT827	
	IDT	IDT74FCT827	
QS74FCT828	Harris	CD74FCT828	
	IDT	IDT74FCT828	
QS74FCT841	Harris	CD74FCT841	
	IDT	IDT74FCT841	
QS74FCT843	Harris	CD74FCT843	
	IDT	IDT74FCT843	
QS74FCT845	IDT	IDT74FCT845	
QS74FCT861	Harris	CD74FCT861	
	IDT	IDT74FCT861	
QS74FCT862	Harris	CD74FCT862	
	IDT	IDT74FCT862	
QS74FCT863	Harris	CD74FCT863	
	IDT	IDT74FCT863	
QS74FCT864	Harris	CD74FCT864	
	IDT	IDT74FCT864	
QS77212	Ideal Semi	ISI77212	
QS77229	Ideal Semi	ISI77229	
QS77306	Ideal Semi	ISI77306	
QS77316	Ideal Semi	ISI77316	
QS812880	Ideal Semi	ISI7812880	
QS8201	IDT	IDT7201	
	MicronSemi	MT52C9005	
QS8202	IDT	IDT7202	
	MicronSemi	MT52C9010	
QS8203	MicronSemi	MT52C9020	
QS8204	MicronSemi	MT52C4K9	
QS83280	Cypress	CY7B199	
	Hitachi	HM77832	
	Ideal Semi	ISI783280	
			(Continued)
QS83280			(Cont'd)
	IDT	IDT71B256	
		IDT71256	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
		MCM6706	
QS83283	Ideal Semi	ISI783283	
QS83285	Ideal Semi	ISI783285	
QS83289	Ideal Semi	ISI783289	
QS83290	Ideal Semi	ISI783290	
QS83291	Ideal Semi	ISI783291	
QS83820	Motorola	MCM6706A	
QS86440	Cypress	CY7B194	
		CY7C194	
	Hitachi	HM6708	
	Ideal Semi	ISI786440	
	IDT	IDT71B258	
		IDT71258	
	MicronSemi	MT5C2564	
	Motorola	MCM6208	
		MCM6708	
		MCM6708A	
	Performance	P4C1258	
	Toshiba	TC55464	
QS86442	Ideal Semi	ISI786442	
QS86444	Ideal Semi	ISI786444	
QS86446	Cypress	CY7B196	
	Hitachi	HM6709	
	Ideal Semi	ISI786446	
	IDT	IDT61B298	
	MicronSemi	MT5C2565	
	Motorola	MCM6209	
		MCM6268	
		MCM6709	
	Toshiba	TC55465	
QS86447	Ideal Semi	ISI786447	
QS86448	Ideal Semi	ISI786448	
QS86449	Ideal Semi	ISI786449	
QS86646	Cypress	CYC196	
QS8761	AT&T	ATT7C171	
	Cypress	CY7C171	
		CY7C171A	
	IDT	IDT71681	
	MicronSemi	MT5C1606	
	Performance	P4C1681	
QS8762	AT&T	ATT7C172	
	Cypress	CY7C172	
		CY7C172A	
	IDT	IDT71682	
	MicronSemi	MT5C1607	
	Performance	P4C1682	
QS8768	AT&T	ATT7C168	
	Cypress	CY7C168	
	IDT	IDT6168	
	MicronSemi	MT5C1604	
	Motorola	MCM6268	
	Performance	P4C168	
QS8769	Cypress	CY7C169	
		CY7C169A	
	Ideal Semi	ISI78769	
	Motorola	MCM6269	
QS8780	AT&T	ATT7C180	
	Ideal Semi	ISI78780	
	IDT	IDT6178	
QS8816	AT&T	ATT7C183	
QS88160	Ideal Semi	ISI788160	
QS8817	AT&T	ATT7C184	
QS88180	Ideal Semi	ISI788180	
QS88181	Ideal Semi	ISI788181	
QS88182	Ideal Semi	ISI788182	
QS8821	AT&T	ATT7C191	
QS8822	AT&T	ATT7C192	
QS8828	AT&T	ATT7C194	
QS8881	AT&T	ATT7C161	
	Cypress	CY7C161	
		CY7C161A	
	Ideal Semi	ISI78881	
	IDT	IDT71981	
	MicronSemi	MT5C6406	
	Performance	P4C1981	
QS8882	AT&T	ATT7C162	
	Cypress	CY7C162	
		CY7C162A	
	Ideal Semi	ISI78882	
	IDT	IDT71982	
	MicronSemi	MT5C6407	
	Performance	P4C1982	
QS8883	Ideal Semi	ISI78883	
QS8885	AT&T	ATT7C165	
	Ideal Semi	ISI78885	
	IDT	IDT7198	
	Performance	P4C198A	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Quality Semiconductor, Inc. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
QS8886	AT&T	ATT7C166	
	Cypress	CY7C166	
		CY7C166A	
	Hitachi	HM6789	
	Ideal Semi	ISI78886	
	IDT	IDT61B98	
		IDT6198	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Performance	P4C198	
	Toshiba	TC55417	
QS8886A	Cypress	CY7C166	
	Hitachi	HM6789	
	IDT	IDT6198	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Performance	P4C198	
	Toshiba	TC55417	
QS8888	AT&T	ATT7C164	
	Cypress	CY7C164	
		CY7C164A	
	Hitachi	HM6788	
	Ideal Semi	ISI78888	
	IDT	IDT7188	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	Performance	P4C188	
	Toshiba	TC55416	
♦ QS8888A	Cypress	CY7C164	
	Hitachi	HM6788	
	IDT	IDT7188	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	Performance	P4C188	
	Toshiba	TC55416	
8768	Ideal Semi	ISI78768	

Ramtron

Manufacturer Device	Replacement Source	Device	IC Master Page
FM1208S	ATMEL	AT28C04	
	EXEL	2804A	
	Microchip	28C04A	
	Xicor	X2804A	
FM1408S	ATMEL	AT28C16	
	Dallas	DS1220	
	Microchip	28C16A	
	SEEQ	2816	
	SGS-Thomson	MK48Z02	
	Xicor	X2816	
FM1608S	ATMEL	AT28C64	
	Catalyst Semi	CAT28C64	
	Dallas	DS1225	
	Microchip	28C64	
	SGS-Thomson	MK48Z08	
	Xicor	X28C64	
FM24C04	ATMEL	AT24C04	
	Catalyst Semi	**CAT24C04**	**(3565)**
	Microchip	24C04	
	SGS-Thomson	ST24C04	
	Xicor	X28C04	
♦ FM24C16	ATMEL	AT24C16	
	Catalyst Semi	**CAT24C16**	**(3565)**
	Microchip	24C16	
	SGS-Thomson	ST24C16	
	Xicor	X24C16	

Raytheon Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
DAC08	AMD	AMDAC08	
	AD	AD1508	
		DAC08	
	Datel	DACIC8	
	Motorola	DAC08	
		MC1408L8	
	National	DAC08	
DAC10	AD	AD7520	
		AD7530	
		AD7533	
		DAC10	
	Datel	DACHF10	
	GEC Plessey	SP9770	
	National	DAC1020	
		DAC1021	
DAC6012	AD	DAC312	
LH2101	Motorola	MC1537	
LH2101A	AMD	LH2101A	
	National	LH2101A	
	Philips	LH2101A	
LH2108	AD	PM2108	
LH2111	AMD	LH2111	
	National	LH2111	
LM101	AD	OP77	
	LinearTech	LM101	
	Motorola	LM101	
LM101A	AMD	LM101A	
	Harris	CA101A	
	Motorola	LM101A	
	National	µA101A	
		LM101A	
	Philips	LM101A	
LM107	LinearTech	LM107	
LM108	AD	LM108	
		PM1008	
	Lattice	LM108	
LM108ADE/883	TI	LM108AJGB	
LM108AT/883B	TI	LM108ALB	
LM108DE/883	TI	LM108JGB	
LM108T/883B	TI	LM108LB	
LM110	AD	OP15	
LM111	LinearTech	LM111	
		LT1011	
		LT111	
	Motorola	LM111	
	National	LM111	
♦ LM111	AMD	LM111	
	Harris	CA111	
	Motorola	LM111	
	National	µA111	
		LM111	
♦ LM111	Philips	LM111	
LM124	AMD	LM124	
	AD	OP11	
		OP421	
	Harris	CA124	
	LinearTech	LT1014	
	Motorola	LM124	
	National	µA124	
		LM124	
	Philips	LM124	
	TI	LM124	
LM124J	TI	LM124J	
LM124J/883B	TI	LM124JB	
LM139	AMD	LM139	
	AD	CMP04	
		PM139	**(3539)**
	Harris	CA139	
	Motorola	LM139	
	National	µA139	
		LM139	
	Philips	LM139	
	TI	LM139	
LM139AJ	TI	LM139AJ	
LM139AJ/883B	TI	LM139AJB	
LM139J	TI	LM139J	
LM139J/883B	TI	LM139JB	
LM148	AMD	AM148	
	AD	PM148	
	LinearTech	LM1014	
	National	µA148	
		LM148	
	Philips	LM148	
LM148J	TI	LM148J	
LM148J/883B	TI	LM148JB	
LM2900	National	µA2900	
		LM2900	
LM2901	AD	CMP04	
LM301	AnalogSys	MA332	
		MA333	
		MA362	
LM301A	National	LM301A	
♦ LM301A	AMD	LM301A	
	Harris	CA301A	
	Motorola	LM301A	
	National	µA301A	
		LM301A	
♦ LM301A	Philips	LM301A	
	TI	LM301A	
LM311	LinearTech	LM311	
		LT1011	
		LT311	
LM324	AMD	LM324	
	AD	OP11	
		OP421	
	AnalogSys	MA374	
	Harris	CA324	
	Motorola	LM324	
	National	µA324	
		LM324	
	Philips	LM324	
	TI	LM324	
LM339	Motorola	LM339	
	National	LM339	
♦ LM339	AMD	LM339	
	AD	PM339	
	Harris	CA339	
	Motorola	LM339	
	National	µA339	
		LM339	
♦ LM339	Philips	LM339	
	TI	LM339	
LM348	AMD	LM348	
	AD	OP11	
	AnalogSys	MA374	
	National	µA348	
		LM348	
	Philips	LM348	
	TI	LM348	
LM358	AnalogSys	MA336	
		MA372	
LM3900	National	µA3900	
		LM3900	
	TI	LM3900	
LP365	National	LP365	
LT1001	AD	OP177	
		OP77	
	Harris	HA5177	
♦ LT1001	Lattice	LT1001	
LT1012	AD	PM1012	
OP05	LinearTech	LT1001	
		OP05	
OP07	AD	ADOP07	
		OP07	
		OP177	
	Lattice	OP07	
	LinearTech	LT1001	
		OP07	
	Maxim	OP07	
OP27	AD	OP27	
	Burr-Brown	OPA27	
		OP27	
	Harris	HA5127	
	Lattice	OP27	
	LinearTech	LT1007	
	Motorola	OP27	
OP27ADE/883B	TI	OP27A	
OP27CDE/883B	TI	OP27C	
OP37	AD	OP37	
	Burr-Brown	OPA37	
		OP37	
	Harris	HA5137	
	Lattice	OP37	
	LinearTech	LT1037	
		OP37	
OP37ADE/883B	TI	OP37A	
OP37CDE/883B	TI	OP37C	
OP47	Harris	HA5147	
OP7	Burr-Brown	OPA177	
OP77	AD	OP177	
		OP77	
	Harris	HA5177	
RC1437	Motorola	MC1437	
RC1458	Motorola	MC1458	
	National	LM1458	
RC1488	Motorola	MC1488	
	SGS-Thomson	MC1488	
RC1489	Motorola	MC1489	
	SGS-Thomson	MC1489	
RC1556	Motorola	MC1456	
RC1558	Motorola	MC1558	
	National	LM1558	
♦ RC1900	Lansdale	ML1800	
♦ RC1901	Lansdale	ML1801	
♦ RC1902	Lansdale	ML1802	
♦ RC1903	Lansdale	ML1803	
♦ RC1904	Lansdale	ML1804	
♦ RC1905	Lansdale	ML1805	
RC2041	AnalogSys	MA336	
		MA372	
RC2043	AnalogSys	MA336	
		MA372	
RC2902	AnalogSys	MA374	
RC3302	Motorola	MC3302	
RC3403	AnalogSys	MA374	
	Harris	CA5470	
RC3403A	Motorola	MC3403	
	National	µA3403	
	TI	MC3403	
RC4077	**AD**	**AD707**	**(3526)**
		OP177	
RC4097	AD	OP97	
RC4131	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	MC1741	
RC4136	AD	OP09	
	Exar	XR4136	
	Motorola	MC3403	
	National	µA4136	
	TI	RC4136	
RC4151	Exar	XR4151	
♦ RC4151	AD	AD451	
	Burr-Brown	**VFC32**	**(3472)**
	Datel	VFQ1C	
	Exar	XR4151	
	TeledyneC	4780	
RC4152	AD	AD452	
	Burr-Brown	**VFC42**	**(3472)**
	Datel	VFQ2C	
	Exar	XR4151	
	TeledyneC	4781	
RC4153	AD	AD537	
	Burr-Brown	**VFC320**	**(3472)**
		VFC52	**(3472)**
	Datel	VFQ3C	
	TeledyneC	4782	
RC4156	AD	OP11	
		OP421	
	AnalogSys	MA374	
	Motorola	MC4741	
	National	µA148	
		LM348	
	TI	LM348	
RC4157	Motorola	MC4741	
	National	µA148	
		µA348	
		LM348	
	TI	LM348	
RC4190	Maxim	MAX630	
RC4191	Maxim	MAX630	
RC4193	Maxim	MAX4193	
		MAX630	
RC4194	Exar	XR4194	
	Motorola	MC1468	
RC4195	Exar	XR4195	
	Motorola	MC1468	
		MC1568	
	National	LM325	
		LM326	
RC4200	AD	AD539	
	Burr-Brown	4202K	
		4205K	
	Motorola	MC1494	
RC4200A	AD	AD539	
	Burr-Brown	4202K	
		4205K	
	Motorola	MC1494	
RC4207	AD	OP270	
RC4227	AD	OP270	
♦ RC4227	Lattice	OP227	
RC4277	AD	OP200	
RC4391	Maxim	MAX4391	
		MAX634	
RC4444	Motorola	MC3416	
RC4531	AnalogSys	MA332	
		MA333	
		MA362	
	Elantec	EHA2505	
RC4556	AnalogSys	MA336	
		MA372	
RC4558	AnalogSys	MA336	
		MA372	
	National	µA4558	
	TI	RC4558	
RC4559	AnalogSys	MA336	
		MA372	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Raytheon Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
RC4559			(Cont'd)
	Motorola	MC4558	
	National	µA4558	
	TI	RC4559	
RC4560	AnalogSys	MA336	
		MA372	
RC4562	AnalogSys	MA336	
		MA372	
RC4741	AD	OP11	
		OP421	
	Harris	HA4741	
	Motorola	MC4741	
RC5532	**AD**	**SSM2139**	**(3529)**
	AnalogSys	MA336	
		MA372	
	Exar	XR5532	
	Harris	HA5102	
	Philips	NE5532	
	TI	NE5532	
RC5532A	Exar	XR5532A	
RC5534	**AD**	**SSM2134**	**(3529)**
	Exar	XR5534	
	Harris	HA5101	
	Philips	NE5534	
	TI	NE5534	
RC5534A	Exar	XR5534A	
	Philips	NE5534	
	TI	NE5534	
RC709	Motorola	MC1709	
♦ RC710	Lansdale	ML1710	
RC714	Burr-Brown	OPA27	
	LinearTech	LT1001	
		OP07	
	National	LM607	
RC723	Fujitsu	MB3752	
	Motorola	MC1723	
RC741	AMD	µA741	
	AD	OP02	
		OP77	
	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	CA741	
	Motorola	MC1741	
	National	LM741	
	Philips	CA741	
RC747	AD	OP04	
	Motorola	MC1747	
	National	LM747	
♦ RC747	AD	µA747	
		OP04	
♦ RC747	Harris	CA747	
	Motorola	MC1747	
	National	LM747	
	Philips	CA747	
RC748	Motorola	MC1748	
RC75107	Motorola	MC75107	
RC75108	Motorola	MC75108	
RC75109	Motorola	MC75S110	
RC75110	Motorola	MC75S110	
♦ RC8200	Lansdale	ML7200	
♦ RC8201	Lansdale	ML7201	
♦ RC8202	Lansdale	ML7202	
♦ RC8203	Lansdale	ML7203	
♦ RC8233	Lansdale	ML7233	
♦ RC8234	Lansdale	ML7234	
♦ RC8241	Lansdale	ML7241	
♦ RC8242	Lansdale	ML7242	
♦ RC8250	Lansdale	ML7250	
♦ RC8251	Lansdale	ML7251	
♦ RC8260	Lansdale	ML7260	
♦ RC8261	Lansdale	ML7261	
♦ RC8266	Lansdale	ML7266	
♦ RC8270	Lansdale	ML7270	
♦ RC8271	Lansdale	ML7271	
♦ RC8280	Lansdale	ML7280	
♦ RC8281	Lansdale	ML7281	
♦ RC8290	Lansdale	ML7290	
♦ RC8291	Lansdale	SL7291	
♦ RC930	Lansdale	ML830	
♦ RC9304	Rochester	9304	
♦ RC9310	Rochester	9310	
♦ RC932	Lansdale	ML832	
♦ RC933	Lansdale	ML833	
♦ RC934	Lansdale	ML834	
♦ RC9341	Rochester	9341	
♦ RC935	Lansdale	ML835	
♦ RC936	Lansdale	ML836	
♦ RC937	Lansdale	ML837	
♦ RC940	Lansdale	ML840	
♦ RC941	Lansdale	ML841	
♦ RC945	Lansdale	ML845	
♦ RC946	Lansdale	ML846	
♦ RC948	Lansdale	ML848	
♦ RC949	Lansdale	ML849	
♦ RC950	Lansdale	ML850	
♦ RC951	Lansdale	ML851	
♦ RC957	Lansdale	ML857	
♦ RC958	Lansdale	ML858	
♦ RC961	Lansdale	ML861	
♦ RC962	Lansdale	ML862	
♦ RC963	Lansdale	ML863	
♦ RC993	Lansdale	ML853	
♦ RC994	Lansdale	ML856	
♦ RC997	Lansdale	ML855	
♦ RC999	Lansdale	ML852	
REF-02	Exar	REF02	
	Motorola	MC1404	
	National	LM136	
	TI	MP5502	
REF01	AD	AD581	
		REF01	**(3536)**
	Exar	REF01	
	GEC Plessey	REF100	
		ZNREF100	
	Motorola	MC1404	
	National	LH0070	
		LM368	
		LM369	
	TI	MP5501	
REF02	AD	REF02	
	GEC Plessey	REF50	
		ZNREF050	
	Motorola	MC1404	
	National	LM368	
REF03	**AD**	**REF03**	**(3536)**
		REF43	**(3536)**
	National	LM368	
♦ RF10	Rochester	SNF10	
♦ RF100	Lansdale	ML523	
	Rochester	SNF100	
♦ RF101	Lansdale	ML573	
	Rochester	SNF101	
♦ RF102	Rochester	SNF102	
♦ RF103	Rochester	SNF103	
♦ RF11	Rochester	SNF11	
♦ RF110	Lansdale	ML524	
		RL110	
♦ RF110	Rochester	SNF110	
♦ RF111	Lansdale	ML574	
	Rochester	SNF111	
♦ RF112	Rochester	SNF112	
♦ RF113	Rochester	SNF113	
♦ RF12	Rochester	SNF12	
♦ RF120	Lansdale	ML2123	
		ML2124	
♦ RF120	Rochester	SNF120	
♦ RF121	Lansdale	ML2173	
	Rochester	SNF121	
♦ RF122	Rochester	SNF122	
♦ RF123	Rochester	SNF123	
♦ RF13	Rochester	SNF13	
♦ RF130	Lansdale	ML2124	
	Rochester	SNF130	
♦ RF131	Lansdale	ML2174	
	Rochester	SNF131	
♦ RF132	Rochester	SNF132	
♦ RF133	Rochester	SNF133	
♦ RF20	Rochester	SNF20	
♦ RF200	Lansdale	ML2125	
	Rochester	SNF200	
♦ RF201	Lansdale	ML2175	
	Rochester	SNF201	
♦ RF202	Rochester	SNF202	
♦ RF203	Rochester	SNF203	
♦ RF21	Rochester	SNF21	
♦ RF210	Lansdale	ML2126	
	Rochester	SNF210	
♦ RF211	Lansdale	ML2176	
	Rochester	SNF211	
♦ RF212	Rochester	SNF212	
♦ RF213	Rochester	SNF213	
♦ RF22	Rochester	SNF22	
♦ RF23	Rochester	SNF23	
♦ RF250	Lansdale	ML2109	
	Rochester	SNF250	
♦ RF251	Lansdale	ML2159	
	Rochester	SNF251	
♦ RF252	Rochester	SNF252	
♦ RF253	Rochester	SNF253	
♦ RF260	Rochester	SNF260	
♦ RF261	Rochester	SNF261	
♦ RF262	Rochester	SNF262	
♦ RF263	Rochester	SNF263	
♦ RF30	Lansdale	ML521	
	Rochester	SNF30	
♦ RF31	Lansdale	ML571	
	Rochester	SNF31	
♦ RF32	Rochester	SNF32	
♦ RF33	Rochester	SNF33	
♦ RF50	Lansdale	ML515	
		RL50	
♦ RF50	Rochester	SNF50	
♦ RF51	Lansdale	ML565	
		RL565	
♦ RF51	Rochester	SNF51	
♦ RF52	Rochester	SNF52	
♦ RF53	Rochester	SNF53	
♦ RF60	Lansdale	ML516	
	Rochester	SNF60	
♦ RF61	Lansdale	ML566	
	Rochester	SNF61	
♦ RF62	Rochester	SNF62	
♦ RF63	Rochester	SNF63	
♦ RF71	Lansdale	ML570	
♦ RF9601	Lansdale	ML9601	
♦ RG100	Rochester	SNG100	
♦ RG101	Rochester	SNG101	
♦ RG102	Rochester	SNG102	
♦ RG103	Rochester	SNG103	
♦ RG110	Lansdale	ML505	
	Rochester	SNG110	
♦ RG111	Lansdale	ML555	
	Rochester	SNG111	
♦ RG112	Rochester	SNG112	
♦ RG113	Rochester	SNG113	
♦ RG120	Lansdale	ML506	
	Rochester	SNG120	
♦ RG121	Lansdale	ML556	
	Rochester	SNG121	
♦ RG122	Rochester	SNG122	
♦ RG123	Rochester	SNG123	
♦ RG130	Lansdale	ML507	
	Rochester	SNG130	
♦ RG131	Lansdale	ML557	
	Rochester	SNG131	
♦ RG132	Rochester	SNG132	
♦ RG133	Rochester	SNG133	
♦ RG140	Lansdale	ML508	
	Rochester	SNG140	
♦ RG141	Lansdale	ML558	
	Rochester	SNG141	
♦ RG142	Rochester	SNG142	
♦ RG143	Rochester	SNG143	
♦ RG150	Lansdale	ML509	
	Rochester	SNG150	
♦ RG151	Lansdale	ML559	
	Rochester	SNG151	
♦ RG152	Rochester	SNG152	
♦ RG153	Rochester	SNG153	
♦ RG160	Lansdale	ML519	
	Rochester	SNG160	
♦ RG161	Lansdale	ML569	
	Rochester	SNG161	
♦ RG162	Rochester	SNG162	
♦ RG163	Rochester	SNG163	
♦ RG170	Lansdale	ML510	
	Rochester	SNG170	
♦ RG171	Lansdale	ML560	
	Rochester	SNG171	
♦ RG172	Rochester	SNG172	
♦ RG173	Rochester	SNG173	
♦ RG180	Lansdale	ML511	
	Rochester	SNG180	
♦ RG181	Lansdale	ML561	
	Rochester	SNG181	
♦ RG182	Rochester	SNG182	
♦ RG183	Rochester	SNG183	
♦ RG190	Lansdale	ML512	
	Rochester	SNG190	
♦ RG191	Lansdale	ML562	
	Rochester	SNG191	
♦ RG192	Rochester	SNG192	
♦ RG193	Rochester	SNG193	
♦ RG20	Rochester	SNG20	
♦ RG200	Lansdale	ML2111	
	Rochester	SNG200	
♦ RG201	Lansdale	ML2161	
	Rochester	SNG201	
♦ RG202	Rochester	SNG202	
♦ RG203	Rochester	SNG203	
♦ RG21	Rochester	SNG21	
♦ RG210	Lansdale	ML2100	
	Rochester	SNG210	
♦ RG211	Lansdale	ML2150	
	Rochester	SNG211	
♦ RG212	Rochester	SNG212	
♦ RG213	Rochester	SNG213	
♦ RG22	Rochester	SNG22	
♦ RG220	Lansdale	ML2101	
	Rochester	SNG220	
RG221	Lansdale	ML2151	
♦ RG221	Rochester	SNG221	
♦ RG222	Rochester	SNG222	
♦ RG223	Lansdale	ML2051	
	Rochester	SNG223	
♦ RG23	Rochester	SNG23	
♦ RG230	Lansdale	ML2102	
	Rochester	SNG230	
♦ RG231	Lansdale	ML2152	
	Rochester	SNG231	
♦ RG232	Rochester	SNG232	
♦ RG233	Rochester	SNG233	
♦ RG240	Lansdale	ML2103	
	Rochester	SNG240	
♦ RG241	Lansdale	ML2153	
	Rochester	SNG241	
♦ RG242	Rochester	SNG242	
♦ RG243	Rochester	SNG243	
♦ RG250	Lansdale	ML2104	
	Rochester	SNG250	
♦ RG251	Lansdale	ML2154	
	Rochester	SNG251	
♦ RG252	Rochester	SNG252	
♦ RG253	Rochester	SNG253	
♦ RG260	Lansdale	ML2105	
	Rochester	SNG260	
♦ RG261	Lansdale	ML2155	
	Rochester	SNG261	
♦ RG262	Rochester	SNG262	
♦ RG263	Rochester	SNG263	
♦ RG270	Lansdale	ML2106	
	Rochester	SNG270	
♦ RG271	Lansdale	ML2156	
	Rochester	SNG271	
♦ RG272	Rochester	SNG272	
♦ RG273	Rochester	SNG273	
♦ RG280	Lansdale	ML527	
	Rochester	SNG280	
♦ RG281	Lansdale	ML577	
	Rochester	SNG281	
♦ RG282	Rochester	SNG282	
♦ RG283	Rochester	SNG283	
♦ RG290	Lansdale	ML528	
	Rochester	SNG290	
♦ RG291	Lansdale	ML578	
	Rochester	SNG291	
♦ RG292	Rochester	SNG292	
♦ RG293	Rochester	SNG293	
♦ RG30	Rochester	SNG30	
♦ RG300	Lansdale	ML2112	
	Rochester	SNG300	
♦ RG301	Lansdale	ML2162	
	Rochester	SNG301	
♦ RG302	Rochester	SNG302	
♦ RG303	Rochester	SNG303	
♦ RG31	Rochester	SNG31	
♦ RG310	Lansdale	ML2113	
	Rochester	SNG310	
♦ RG311	Lansdale	ML2163	
	Rochester	SNG311	
♦ RG312	Rochester	SNG312	
♦ RG313	Rochester	SNG313	
♦ RG32	Rochester	SNG32	
♦ RG320	Lansdale	ML2107	
	Rochester	SNG320	
♦ RG321	Lansdale	ML2157	
	Rochester	SNG321	
♦ RG322	Rochester	SNG322	
♦ RG323	Rochester	SNG323	
♦ RG33	Rochester	SNG33	
♦ RG330	Lansdale	RL330	
♦ RG331	Lansdale	RL331	
♦ RG340	Lansdale	RL340	
♦ RG341	Lansdale	RL341	
♦ RG370	Lansdale	ML529	
	Rochester	SNG370	
♦ RG371	Lansdale	ML579	
♦ RG372	Rochester	SNG372	
♦ RG373	Rochester	SNG373	
♦ RG380	Lansdale	ML2116	
	Rochester	SNG380	
♦ RG381	Lansdale	ML2166	
	Rochester	SNG381	
♦ RG382	Rochester	SNG382	
♦ RG383	Rochester	SNG383	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Raytheon Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ RG40	Lansdale	ML500	
	Rochester	SNG40	
♦ RG41	Lansdale	ML550	
	Rochester	SNG41	
♦ RG42	Rochester	SNG42	
♦ RG43	Rochester	SNG43	
♦ RG50	Lansdale	ML501	
	Rochester	SNG50	
♦ RG51	Lansdale	ML551	
	Rochester	SNG51	
♦ RG52	Rochester	SNG52	
♦ RG53	Rochester	SNG53	
♦ RG60	Lansdale	ML502	
	Rochester	SNG60	
♦ RG61	Lansdale	ML552	
	Rochester	SNG61	
♦ RG62	Rochester	SNG62	
♦ RG63	Rochester	SNG63	
♦ RG70	Lansdale	ML520	
	Rochester	SNG70	
♦ RG71	Rochester	SNG71	
♦ RG72	Rochester	SNG72	
♦ RG73	Rochester	SNG73	
♦ RG7520	Lansdale	ML2165	
♦ RG7521	Lansdale	ML2165	
♦ RG80	Lansdale	ML526	
	Rochester	SNG80	
♦ RG81	Lansdale	ML576	
	Rochester	SNG81	
♦ RG82	Rochester	SNG82	
♦ RG83	Lansdale	ML476	
	Rochester	SNG83	
♦ RG90	Lansdale	ML503	
	Rochester	SNG90	
♦ RG91	Lansdale	ML553	
	Rochester	SNG91	
♦ RG92	Rochester	SNG92	
♦ RG93	Rochester	SNG93	
♦ RL10	Lansdale	ML4326	
♦ RL11	Lansdale	ML4327	
♦ RL20	Lansdale	ML4328	
♦ RL21	Lansdale	ML4329	
♦ RL30	Lansdale	ML4330	
♦ RL31	Lansdale	ML4331	
♦ RL40	Lansdale	ML4332	
♦ RL61	Lansdale	ML4335	
♦ RL71	Lansdale	ML4337	
♦ RL80	**Lansdale**	**ML4304**	**(3667)**
♦ RL81	**Lansdale**	**ML4305**	**(3667)**
RM1537	Motorola	MC1537	
RM1558	LinearTech	LT1013	
♦ RM1900	Lansdale	ML1900	
♦ RM1901	Lansdale	ML1901	
♦ RM1902	Lansdale	ML1902	
♦ RM1903	Lansdale	ML1903	
♦ RM1904	Lansdale	ML1904	
♦ RM1905	Lansdale	ML1905	
♦ RM201	Lansdale	RL201	
♦ RM202	Lansdale	RL202	
♦ RM204	Lansdale	RL204	
♦ RM206	Lansdale	RL206	
♦ RM208	Lansdale	RL208	
♦ RM210	Lansdale	RL210	
♦ RM211	Lansdale	RL211	
♦ RM212	Lansdale	RL212	
♦ RM213	Lansdale	RL213	
♦ RM214	Lansdale	RL214	
♦ RM215	Lansdale	RL215	
♦ RM216	Lansdale	RL216	
♦ RM217	Lansdale	RL217	
♦ RM220	Lansdale	RL220	
RM2207	Exar	XR2207	
♦ RM221	Lansdale	RL221	
RM2211	Exar	XR2211	
♦ RM224	Lansdale	RL224	
♦ RM225	Lansdale	RL225	
♦ RM226	Lansdale	RL226	
♦ RM227	Lansdale	RL227	
♦ RM231	Lansdale	RL231	
♦ RM234	Lansdale	RL234	
♦ RM236	Lansdale	RL236	
♦ RM241	Lansdale	RL241	
♦ RM246	Lansdale	RL246	
♦ RM261	Lansdale	RL261	
♦ RM266	Lansdale	RL266	
♦ RM286	Lansdale	RL286	
♦ RM288	Lansdale	RL288	
♦ RM296	Lansdale	RL296	
RM3182	Holt	HI8382	

Manufacturer Device	Replacement Source	Device	IC Master Page
RM3183	Holt	HI8482	
RM4077	AD	OP177	
RM4097	AD	OP97	
RM4136	AD	OP09	
	Motorola	MC3503	
RM4136DC	TI	RM4136J	
RM4136DC/883B	TI	RM4136JB	
RM4191	Maxim	MAX630	
RM4193	Maxim	MAX4193	
RM4194	Motorola	MC1568	
RM4195	Motorola	MC1568	
RM4207	AD	OP270	
♦ RM4207	AD	OP207	
RM4227	AD	OP200	
♦ RM4227	AD	OP227	
RM4391	Maxim	MAX4391	
RM4531	Elantec	EHA2500	
RM4556DE	TI	RM4558JG	
RM4558DE/883B	TI	RM4558JGB	
RM4559DE/883B	TI	RM4559	
RM5532	Harris	HA5102	
	Philips	SE5532	
RM5534	Harris	HA5101	
RM709	Motorola	MC1709	
RM723	Fujitsu	MB3752	
	Motorola	MC1723	
RM741	AD	OP77	
	Motorola	MC1741	
RM741DC/883B	TI	UA741MJB	
RM741DE/883B	TI	UA741MJGB	
RM741T/883B	TI	UA741MLB	
RM747	AD	OP04	
	Motorola	MC1747	
RM747DC/883B	TI	UA747MJB	
RM748	Motorola	MC1748	
♦ RM8T10	Lansdale	SL8T10	
♦ RM8T14	Lansdale	SL8T14	
♦ RM8T20	Lansdale	SL8T20	
♦ RM8T24	Lansdale	SL8T24	
♦ RM8200	Lansdale	ML8200	
		SL8200	
♦ RM8201	Lansdale	ML8201	
		SL8201	
♦ RM8202	Lansdale	SL8202	
♦ RM8203	Lansdale	ML8203	
		SL8203	
♦ RM8230	Lansdale	SL8230	
♦ RM8231	Lansdale	SL8231	
♦ RM8232	Lansdale	SL8232	
♦ RM8233	Lansdale	ML8233	
♦ RM8234	Lansdale	ML8234	
		SL8234	
♦ RM8241	Lansdale	ML8241	
		SL8241	
♦ RM8242	Lansdale	ML8242	
		SL8242	
♦ RM8243	Lansdale	SL8243	
♦ RM8250	Lansdale	ML8250	
		SL8250	
♦ RM8251	Lansdale	ML8251	
		SL8251	
♦ RM8252	Lansdale	SL8252	
♦ RM8260	Lansdale	ML8260	
		SL8260	
♦ RM8261	Lansdale	ML8261	
		SL8261	
♦ RM8263	Lansdale	SL8263	
♦ RM8264	Lansdale	SL8264	
♦ RM8266	Lansdale	ML8266	
		SL8266	
♦ RM8267	Lansdale	ML8267	
		SL8267	
♦ RM8270	Lansdale	ML8270	
		SL8270	
♦ RM8271	Lansdale	ML8271	
		SL8271	
♦ RM8273	Lansdale	SL8273	
♦ RM8274	Lansdale	SL8274	
♦ RM8275	Lansdale	SL8275	
♦ RM8277	Lansdale	SL8277	
♦ RM8280	Lansdale	ML8280	
		SL8280	
♦ RM8281	Lansdale	ML8281	
		SL8281	
♦ RM8284	Lansdale	ML8284	
		SL8284	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ RM8285	Lansdale	ML8285	
		SL8285	
♦ RM8290	Lansdale	ML8290	
		SL8290	
♦ RM8291	Lansdale	ML8291	
		SL8291	
♦ RM8293	Lansdale	SL8293	
♦ RM930	Lansdale	ML930	
	Rochester	930	
♦ RM9304	Rochester	9304	
♦ RM9310	Rochester	9310	
♦ RM932	Lansdale	ML932	
	Rochester	932	
♦ RM933	Lansdale	ML933	
	Rochester	933	
♦ RM934	Lansdale	ML934	
♦ RM9341	Rochester	9341	
♦ RM935	Lansdale	ML935	
♦ RM936	Lansdale	ML936	
♦ RM937	Lansdale	ML937	
♦ RM939	Lansdale	ML939	
♦ RM940	Lansdale	ML940	
♦ RM941	Lansdale	ML941	
♦ RM944	Lansdale	ML944	
	Rochester	944	
♦ RM945	Lansdale	ML945	
	Rochester	945	
♦ RM946	Lansdale	ML946	
	Rochester	946	
♦ RM948	Lansdale	ML948	
	Rochester	948	
♦ RM949	Lansdale	ML949	
♦ RM950	Lansdale	ML950	
	Rochester	950	
♦ RM951	Lansdale	ML951	
	Rochester	951	
♦ RM952	Lansdale	ML952	
♦ RM953	Lansdale	ML953	
♦ RM955	Lansdale	ML955	
♦ RM956	Lansdale	ML956	
♦ RM957	Lansdale	ML957	
	Rochester	9157	
♦ RM958	Lansdale	ML958	
	Rochester	9158	
♦ RM961	Lansdale	ML961	
	Rochester	961	
♦ RM962	Lansdale	ML962	
	Rochester	962	
♦ RM963	Lansdale	ML963	
	Rochester	963	
♦ RM993	Lansdale	ML953	
	Rochester	9093	
♦ RM994	Lansdale	ML956	
	Rochester	9094	
♦ RM997	Lansdale	ML955	
	Rochester	9097	
♦ RM999	Lansdale	ML952	
RV4077	AD	OP177	
RV4097	AD	OP97	
RV4191	Maxim	MAX630	
RV4193	Maxim	MAX4193	
RV4207	AD	OP270	
RV4391	Maxim	MAX4391	
RV741	AD	OP77	
♦ SG710	Lansdale	ML1710	
♦ S9671	Lansdale	HL76321	
TDC1141	**Harris**	**HI20201**	**(3639)**
TL103	Linfinity Micro	SG103	
	National	LM103	
TL14575	Holt	HI8575	
	Motorola	MC14575	
TL4066	Harris	CD4066	
	Motorola	MC14066	
	National	CD4066	
TL8023	Harris	ICL8023	
TMC0473	**AD**	**ADV473**	**(3518)**
	Brooktree	BT473	
TMC0478	AMD	AM81C478	
	AD	**ADV478**	**(3518)**
	Brooktree	BT477	
		BT478	
	Samsung	KDA0478	
	Sierra	SC11478	
TMC11488	Sierra	SC11488	
XR2207	Exar	XR2007	
		XR2207	
XR2211	Exar	XR2211	
♦ 29611	Lansdale	HL7621	
♦ 29621	Lansdale	HL7649	
♦ 29625	Lansdale	HL7641	
♦ 29635	Lansdale	HL7681	
♦ 29641	Lansdale	HL76165	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ 29651	Lansdale	HL7685	
♦ 29660	Lansdale	HL7610	
♦ 29661	Lansdale	HL7611	
29671	Waferscale	WS57C43	
29681	Waferscale	WS57C291	
♦ 29681	Lansdale	HL76161	
29683	Waferscale	WS57C191	
39VP864	Waferscale	WS57C49	
♦ 82S130	Lansdale	HL7620	
♦ 82S140	Lansdale	HL7640	

Ricoh

Manufacturer Device	Replacement Source	Device	IC Master Page
EPL10P8	Lattice	GAL16V8	
EPL10P8B	AMD	PAL10H8	
		PAL10L8	
EPL12P6	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL12P6B	AMD	PAL12H6	
		PAL12L6	
EPL14P4	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL14P4B	AMD	PAL14H4	
		PAL14L4	
EPL16P2	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL16P2B	AMD	PAL16H2	
		PAL16L2	
EPL16P8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL16P8B	AMD	PAL16L8	
EPL16RP4	AMD	PAL16R4	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL16RP6	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL16RP6B	AMD	PAL16R6	
EPL16RP8	ICT	PEEL18CV8	
	Lattice	GAL16V8	
EPL16RP8B	AMD	PAL16R8	
EPL204	AMD	16V8	
		18P8	
	ICT	PEEL18CV8	
EPL241	AMD	22V10	
EP10P8	ICT	PEEL18CV8	
RD27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
RD27C512	Krueger	27C512-150	
		27C512-200	
		27C512-250	

Rochester Electronics

Manufacturer Device	Replacement Source	Device	IC Master Page
RC3000	**Lansdale**	**ML74H00**	**(3669)**
		SL74H00	
	Rochester	74H00	
RC3001	**Lansdale**	**ML74H08**	**(3669)**
		SL74H08	
	Rochester	74H08	
RC3004	**Lansdale**	**ML74H01**	**(3669)**
		SL74H01	
	Rochester	74H01	
RC3005	**Lansdale**	**ML74H10**	**(3669)**
		SL74H10	
	Rochester	74H10	
RC3006	**Lansdale**	**ML74H11**	**(3669)**
		SL74H11	
	Rochester	74H11	
RC3008	**Lansdale**	**ML74H04**	**(3669)**
	Rochester	74H04	
RC3009	**Lansdale**	**ML74H05**	**(3669)**
	Rochester	74H05	
RC3010	**Lansdale**	**ML74H20**	**(3669)**
		SL74H20	
	Rochester	74H20	
RC3011	**Lansdale**	**ML74H21**	**(3669)**
		SL74H21	
	Rochester	74H21	
RC3012	**Lansdale**	**ML74H22**	**(3669)**
		SL74H22	
	Rochester	74H22	
RC3016	**Lansdale**	**ML74H30**	**(3669)**
		SL74H30	
	Rochester	74H30	
RC3018	**Lansdale**	**ML74H62**	**(3669)**
		SL74H62	
	Rochester	74H62	
RC3020	**Lansdale**	**ML74H50**	**(3669)**
	Rochester	74H50	
RC3023	**Lansdale**	**ML74H51**	**(3669)**
♦ RC3023	Rochester	74H51	

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Rochester Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
RC3024	**Lansdale**	**ML74H40**	**(3669)**
		SL74H40	
	Rochester	74H40	
RC3030	Lansdale	ML74H60	
		SL74H60	
	Rochester	74H60	
RC3031	**Lansdale**	**ML74H52**	**(3669)**
		SL74H52	
	Rochester	74H52	
RC3032	**Lansdale**	**ML74H53**	**(3669)**
		SL74H53	
	Rochester	74H54	
RC3033	**Lansdale**	**ML74H54**	**(3669)**
		SL74H54	
♦ RC3033	Rochester	74H54	
RC3034	Lansdale	SL74H55	
	Rochester	74H55	
RC3035	Lansdale	SL74H72	
RC3054	Lansdale	ML74H71	
		SL74H71	
	Rochester	74H71	
RC3055	**Lansdale**	**ML74H72**	**(3669)**
	Rochester	74H72	
RC3060	**Lansdale**	**ML74H74**	**(3669)**
		SL74H74	
♦ RC3060	Rochester	74H74	
RC3063	**Lansdale**	**ML74H73**	**(3669)**
	Rochester	74H73	
♦ RC3063	Lansdale	SL74H73	
RC3100	**Lansdale**	**ML54H00**	**(3669)**
		SL54H00	
	Rochester	74H00	
RC3104	**Lansdale**	**ML54H01**	**(3669)**
		SL54H01	
	Rochester	54H01	
RC3105	**Lansdale**	**ML54H10**	**(3669)**
		SL54H10	
	Rochester	54H10	
RC3106	**Lansdale**	**ML54H11**	**(3669)**
		SL54H11	
	Rochester	54H11	
RC3108	**Lansdale**	**ML54H04**	**(3669)**
	Rochester	54H04	
RC3109	**Lansdale**	**ML54H05**	**(3669)**
	Rochester	54H05	
RC3110	**Lansdale**	**ML54H20**	**(3669)**
		SL54H20	
	Rockwell	54H20	
RC3111	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
	Rochester	54H21	
RC3112	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
	Rochester	54H22	
RC3116	**Lansdale**	**ML54H30**	**(3669)**
		SL54H30	
	Rochester	54H30	
RC3118	**Lansdale**	**ML54H62**	**(3669)**
		SL54H62	
	Rochester	54H62	
RC3119	**Lansdale**	**ML54H61**	**(3669)**
		SL54H61	
	Rochester	54H61	
RC3120	**Lansdale**	**ML54H50**	**(3669)**
	Rochester	54H50	
RC3123	**Lansdale**	**ML54H51**	**(3669)**
	Rochester	54H51	
RC3124	**Lansdale**	**ML54H40**	**(3669)**
		SL54H40	
	Rochester	54H40	
RC3130	**Lansdale**	**ML54H60**	**(3669)**
		SL54H60	
	Rochester	54H60	
RC3131	**Lansdale**	**ML54H52**	**(3669)**
		SL54H52	
	Rochester	54H52	
RC3132	**Lansdale**	**ML54H53**	**(3669)**
		SL54H53	
♦ RC3132	Rochester	54H53	
RC3133	**Lansdale**	**ML54H54**	**(3669)**
		SL54H54	
	Rochester	54H54	
RC3134	**Lansdale**	**ML54H55**	**(3669)**
		SL54H55	
	Rochester	54H55	
RC3154	**Lansdale**	**ML54H71**	**(3669)**
		SL54H71	
	Rochester	54H71	
RC3155	**Lansdale**	**ML54H72**	**(3669)**
		SL54H72	
	Rochester	54H72	
RC3160	**Lansdale**	**ML54H74**	**(3669)**
		SL54H74	
	Rochester	54H74	
RC3163	**Lansdale**	**ML54H73**	**(3669)**
		SL54H73	
	Rochester	54H73	
100101	National	100101	
10141	National	10141	
10165	National	10165	
10181	National	10181	
2N3576	Motorola	2N3576	
25LS2518	AMD	AM25LS2518	
25LS2520	AMD	AM25LS2520	
25LS2569	AMD	AM25LS2569	
25L04	AMD	AM25L04	
25S18	AMD	AM25S18	
27C16	National	NMC27C16	
27LS00	AMD	AM27LS00	
27LS00A	AMD	AM27LS00A	
2918	AMD	AM2918	
2964B	AMD	AM2964B	
3034	**Lansdale**	**ML74H55**	**(3669)**
54ALS00	Motorola	54ALS00	
	TI	SN54ALS00A	
54ALS10	TI	SN54ALS09	
		SN54ALS10A	
54ALS12	TI	SN54ALS114A	
		SN54ALS12A	
54ALS138	Motorola	54ALS138	
	TI	SN54ALS133	
		SN54ALS138	
54ALS174	National	DM54ALS174	
	TI	SN54ALS169B	
		SN54ALS174	
54ALS21	TI	SN54ALS20A	
		SN54ALS21A	
54ALS240	TI	SN54ALS234	
		SN54ALS240A	
54ALS241	TI	SN54ALS241A	
54ALS244	TI	SN54ALS244A	
54ALS245	TI	SN54ALS245A	
54ALS251	TI	SN54ALS251	
54ALS257	TI	SN54ALS253	
		SN54ALS257	
54ALS258	TI	SN54ALS258	
54ALS30	TI	SN54ALS30A	
54ALS32	Motorola	54ALS32	
	TI	SN54ALS32	
54ALS373	TI	SN54ALS37A	
		SN54ALS373	
54ALS38	TI	SN54ALS374	
		SN54ALS38A	
54ALS534	TI	SN54ALS520	
		SN54ALS534	
54ALS573	Motorola	54ALS573	
	TI	SN54ALS573B	
54ALS574	Motorola	54ALS574	
	TI	SN54ALS574A	
54ALS652	National	DM54ALS651	
	TI	SN54ALS652	
54ALS74	TI	SN54ALS74A	
54ALS804	TI	SN54ALS804A	
54AS1036	TI	SN54AS1036	
54F04	Motorola	MC54F04	
	National	54F04	
	TI	SN54F04	
54F109	National	54F109	
	TI	SN54F109	
54F139	Motorola	MC54F139	
	National	54F139	
54F153	Motorola	MC54F153	
	National	54F153	
	TI	SN54F153	
54F161	National	54F161A	
	TI	SN54F161A	
54F164	Motorola	MC54F164	
	National	54F164	
		54F164A	
54F175	Motorola	MC54F175	
	National	54F175	
	TI	SN54F175	
54F18	TI	SN54F518	
54F19	TI	SN54F519	
54F20	Motorola	MC54F20	
	National	54F20	
	Philips	54F20	
	TI	SN54F20	
54F240	National	54F240	
	Philips	54F240	
	TI	SN54F240	
54F241	Motorola	MC54F241	
	National	54F241	
	Philips	54F241	
	TI	SN54F241	
54F244	Motorola	MC54F244	
	National	54F244	
	Philips	54F244	
	TI	SN54F244	
54F251A	National	54F251A	
54F257A	Motorola	MC54F257	
	National	54F257	
	Philips	54F257	
	TI	SN54F257	
54F352	Motorola	MC54F352	
	National	54F352	
	TI	SN54F352	
54F36	TI	SN54F36	
54F373	Motorola	MC54F373	
	National	54F373	
	Philips	54F373	
	TI	SN54F373	
54F374	Motorola	MC54F374	
	National	54F374	
	Philips	54F374	
	TI	SN54F374	
54F398	Motorola	MC54F398	
	National	54F398	
	Philips	54F398	
54F518	TI	SN54F518	
54F519	TI	SN54F519	
54F563	TI	SN54F563	
54HCT00	GoldStar	GD54HCT00	
	Harris	CD54HCT00	
	Ideal Semi	**54HCTLS86**	**(3643)**
	Motorola	MC54HCT00A	
	National	MM54HCT00	
54HCT04	GoldStar	GD54HCT04	
	Harris	CD54HCT04	
	Motorola	MC54HCT04A	
	National	MM54HCT04	
	TI	SN54HCT04	
54HCT05	GoldStar	GD54HCT05	
	National	MM54HCT05	
54HCT137	TI	SN54HCT137	
54HCT240	National	MM54HCT240	
	TI	SN54HCT240	
54HCT241	National	MM54HCT241	
	TI	SN54HCT241	
54HCT273	GoldStar	GD54HCT273	
	Harris	CD54HCT273	
	Motorola	MC54HCT273A	
	National	MM54HCT273	
54HCT34	GoldStar	GD54HCT34	
54HCT533	GEC Plessey	54HCT533SOS	
	GoldStar	GD54HCT533	
	Harris	CD54HCT533	
	Motorola	MC54HCT533A	
	National	MM54HCT533	
54HCT620	Harris	CD54HCT597	
54HCT640	Harris	CD54HCT640	
	Motorola	MC54HCT640A	
	National	MM54HCT640	
54HCT643	Harris	CD54HCT643	
	National	MM54HCT643	
54HCT74	GoldStar	GD54HCT74	
	Harris	CD54HCT73	
		CD54HCT74	
	National	MM54HCT74	
54HC04	National	MM54HC04	
	TI	SN54HC04	
54HC107	Harris	CD54HC107	
	Motorola	MC54HC107	
	National	MM54HC107	
	TI	SN54HC107	
54HC11	GoldStar	GD54HC11	
	Harris	CD54HC11	
	Motorola	MC54HC11	
	National	MM54HC11	
	TI	SN54HC11	
54HC113	Motorola	MC54HC113	
	National	MM54HC113	
	TI	SN54HC113	
54HC114	TI	SN54HC114	
54HC125	National	MM54HC125	
	TI	SN54HC125	
54HC126	National	MM54HC126	
	TI	SN54HC126	
54HC133	Motorola	MC54HC133	
	National	MM54HC133	
	TI	SN54HC133	
54HC139	National	MM54HC139	
	TI	SN54HC139	
54HC152	TI	SN54HC152	
54HC153	GoldStar	GD54HC153	
	Harris	CD54HC153	
	Motorola	MC54HC153	
	National	MM54HC153	
	TI	SN54HC153	
54HC154	National	MM54HC154	
	TI	SN54HC154	
54HC158	GoldStar	GD54HC158	
	Harris	CD54HC158	
	National	MM54HC158	
	TI	SN54HC158	
54HC160	National	MM54HC160	
	TI	SN54HC160	
54HC162	GoldStar	GD54HC162	
	Harris	CD54HC162	
	Motorola	MC54HC162	
	National	MM54HC162	
54HC164	National	MM54HC164	
	TI	SN54HC164	
54HC165	National	MM54HC165	
	TI	SN54HC165	
54HC173	GoldStar	GD54HC173	
	Harris	CD54HC173	
	Motorola	MC54HC173	
	National	MM54HC173	
	TI	SN54HC173	
54HC174	National	MM54HC174	
	TI	SN54HC174	
54HC175	National	MM54HC175	
	TI	SN54HC175	
54HC180	TI	SN54HC180	
54HC181	Harris	CD54HC181	
	National	MM54HC181	
54HC192	National	MM54HC192	
	TI	SN54HC192	
54HC193	National	MM54HC193	
	TI	SN54HC193	
54HC194	Harris	CD54HC194	
	Motorola	MC54HC194	
	National	MM54HC194	
	TI	SN54HC194	
54HC237	Harris	CD54HC237	
	Motorola	MC54HC237	
	National	MM54HC237	
	TI	SN54HC237	
54HC240	National	MM54HC240	
	TI	SN54HC240	
54HC241	GoldStar	GD54HC241	
	Harris	CD54HC241	
	Motorola	MC54HC241A	
	National	MM54HC241	
	TI	SN54HC241	
54HC242	Harris	CD54HC242	
	Motorola	MC54HC242	
	National	MM54HC242	
	TI	SN54HC242	
54HC243	Harris	CD54HC243	
	National	MM54HC243	
	TI	SN54HC243	
54HC251	Harris	CD54HC251	
	Motorola	MC54HC251	
	National	MM54HC251	
	TI	SN54HC251	
54HC253	Harris	CD54HC253	
	Motorola	MC54HC253	
	National	MM54HC253	
	TI	SN54HC253	
54HC257	National	MM54HC257	
	TI	SN54HC257	
54HC258	TI	SN54HC258	
54HC266	Motorola	MC54HC266	
	National	MM54HC266	
	TI	SN54HC266	
54HC354	Harris	CD54HC354	
	Motorola	MC54HC354	
	National	MM54HC354	
54HC366	GoldStar	GD54HC366	
	Harris	CD54HC366	
	Motorola	MC54HC366	
	National	MM54HC366	
	TI	SN54HC366	
54HC368	GoldStar	GD54HC368	
	Harris	CD54HC368	
	Motorola	MC54HC368	
	National	MM54HC368	
	TI	SN54HC368	
54HC378	TI	SN54HC378	
54HC379	TI	SN54HC379	
54HC386	TI	SN54HC386	
54HC390	National	MM54HC390	
	TI	SN54HC390	
54HC393	National	MM54HC393	
	TI	SN54HC393	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Rochester Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
54HC4002	Harris	CD54HC4002	
	Motorola	MC54HC4002	
	National	MM54HC4002	
	TI	SN54HC4002	
54HC4016	Harris	CD54HC4015	
		CD54HC4016	
	Motorola	MC54HC4016	
	National	MM54HC4016	
	TI	SN54HC4016	
54HC4020	National	MM54HC4020	
	TI	SN54HC4020	
54HC4046	Harris	CD54HC4046A	
	Motorola	MC54HC4046A	
	National	MM54HC4046	
54HC4060	Harris	CD54HC4059	
		CD54HC4060	
	Motorola	MC54HC4060	
	National	MM54HC4060	
54HC4066	Harris	CD54HC4066	
	Motorola	MC54HC4066	
	National	MM54HC4066	
	TI	SN54HC4066	
54HC4075	Harris	CD54HC4067	
		CD54HC4075	
	Motorola	MC54HC4075	
	National	MM54HC4075	
	TI	SN54HC4075	
54HC4316	Harris	CD54HC4316	
	Motorola	MC54HC4316	
	National	MM54HC4316	
54HC563	National	MM54HC563	
	TI	SN54HC563	
54HC620	National	MM54HC620	
	TI	SN54HC620	
◆ 54HC623	National	MM54HC623	
	TI	SN54HC623	
54HC640	National	MM54HC640	
	TI	SN54HC640	
54HC646	GoldStar	GD54HC646	
	Harris	CD54HC646	
	Motorola	MC54HC646	
	National	MM54HC646	
54HC73	National	MM54HC73	
	TI	SN54HC73	
54HC74	National	MM54HC74	
	TI	SN54HC74	
54HC75	National	MM54HC75	
	TI	SN54HC75	
54HC76	National	MM54HC76	
	TI	SN54HC76	
54HC85	National	MM54HC85	
	TI	SN54HC85	
54HC86	National	MM54HC86	
	TI	SN54HC86	
54H00	**Lansdale**	**ML54H00**	**(3669)**
54H01	**Lansdale**	**ML54H01**	**(3669)**
		SL54H01	
	Rochester	RC3104	
54H04	**Lansdale**	**ML54H04**	**(3669)**
	Rochester	RC3108	
54H05	**Lansdale**	**ML54H05**	**(3669)**
	Rochester	RC3109	
54H08	**Lansdale**	**ML54H08**	**(3669)**
54H10	**Lansdale**	**ML54H10**	**(3669)**
		SL54H10	
	Rochester	RC3105	
54H101	**Lansdale**	**ML54H101**	**(3669)**
54H102	**Lansdale**	**ML54H102**	**(3669)**
54H103	**Lansdale**	**ML54H103**	**(3669)**
54H108	**Lansdale**	**ML54H108**	**(3669)**
54H11	**Lansdale**	**ML54H11**	**(3669)**
		SL54H11	
	Rochester	RC3106	
54H20	**Lansdale**	**ML54H20**	**(3669)**
54H21	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
	Rochester	RC3111	
54H22	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
	Rochester	RC3112	
54H30	**Lansdale**	**ML54H30**	**(3669)**
		SL54H30	
	Rochester	RC3116	
54H40	**Lansdale**	**ML54H40**	**(3669)**
	Rochester	RC3124	
◆ 54H40	Lansdale	SL54H40	
54H50	**Lansdale**	**ML54H50**	**(3669)**
	Rochester	RC3120	
54H51	**Lansdale**	**ML54H51**	**(3669)**
	Rochester	RC3123	

Manufacturer Device	Replacement Source	Device	IC Master Page
54H52	**Lansdale**	**ML54H52**	**(3669)**
		SL54H52	
	Rochester	RC3131	
54H53	**Lansdale**	**ML54H53**	**(3669)**
		SL54H53	
54H54	**Lansdale**	**ML54H54**	**(3669)**
		SL54H54	
	Rochester	RC3133	
54H55	**Lansdale**	**ML54H55**	**(3669)**
		SL54H55	
	National	54H55	
	Rochester	RC3134	
54H60	**Lansdale**	**ML54H60**	**(3669)**
		SL54H60	
	Rochester	RC3130	
54H61	**Lansdale**	**ML54H61**	**(3669)**
		SL54H61	
	Rochester	RC3119	
54H62	**Lansdale**	**ML54H62**	**(3669)**
		SL54H62	
	Rochester	RC3118	
54H71	**Lansdale**	**ML54H71**	**(3669)**
		SL54H71	
	Rochester	RC3154	
54H72	**Lansdale**	**ML54H72**	**(3669)**
		SL54H72	
	Rochester	RC3155	
54H73	**Lansdale**	**ML54H73**	**(3669)**
		SL54H73	
	Rochester	RC3163	
54H74	**Lansdale**	**ML54H74**	**(3669)**
		SL54H74	
	Rochester	RC3160	
54H87	**Lansdale**	**ML54H87**	**(3669)**
54LS00	National	DM54LS00	
	TI	SN54LS00	
54LS02	National	DM54LS02	
	TI	SN54LS02	
54LS03	National	DM54LS03	
	TI	SN54LS03	
54LS05	National	DM54LS05	
	TI	SN54LS05	
54LS112	National	DM54LS112	
	TI	SN54LS112	
54LS113	National	DM54LS113	
	TI	SN54LS113	
54LS138	National	DM54LS138	
	TI	SN54LS138	
54LS158	National	DM54LS158	
	TI	SN54LS158	
54LS164	National	DM54LS164	
	TI	SN54LS164	
54LS165	GoldStar	GD54LS165	
	Motorola	SN54LS165	
	National	54LS165	
	TI	SN54LS165A	
54LS174	National	DM54LS174	
	TI	SN54LS174	
54LS20	National	DM54LS20	
	TI	SN54LS20	
54LS244	National	DM54LS244	
	TI	SN54LS244	
54LS253	National	DM54LS253	
	TI	SN54LS253	
54LS261	TI	SN54LS261	
54LS266	National	DM54LS266	
	TI	SN54LS266	
54LS27	National	DM54LS27	
	TI	SN54LS27	
54LS275	TI	SN54LS275	
54LS279	National	DM54LS279	
	TI	SN54LS279	
54LS283	National	DM54LS283	
	TI	SN54LS283	
54LS368	National	DM54LS368	
	TI	SN54LS368	
54LS373	National	DM54LS373	
	TI	SN54LS373	
54LS38	National	DM54LS38	
	TI	SN54LS38	
54LS42	National	DM54LS42	
	TI	SN54LS42	
◆ 54LS44	Rochester	54LS440	
54LS51	National	DM54LS51	
	TI	SN54LS51	
54LS610	TI	SN54LS610	
54LS627	TI	SN54LS626	
54LS644	TI	SN54LS644	
54LS670	TI	SN54LS670	
54LS696	TI	SN54LS693	
		SN54LS696	
54LS85	National	DM54LS85	
	TI	SN54LS85	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
54LS93	National	DM54LS93	
	TI	SN54LS93	
54LS95	National	DM54LS95	
	TI	SN545LS95	
54S00	GoldStar	GD54S00	
	Lansdale	**SL54S00**	**(3674)**
	National	DM54S00	
	TI	SN54S00	
54S02	GoldStar	GD54S02	
	Lansdale	**SL54S02**	**(3674)**
	National	DM54S02	
	TI	SN54S02	
54S04	GoldStar	GD54S04	
	Lansdale	**SL54S04**	**(3674)**
	National	DM54S04	
	TI	SN54S04	
54S08	GoldStar	GD54S08	
	Lansdale	**SL54S08**	**(3674)**
	National	DM54S08	
	TI	SN54S08	
54S09	TI	SN54S09	
54S10	GoldStar	GD54S10	
	Lansdale	**SL54S10**	**(3674)**
	National	DM54S10	
	TI	SN54S10	
54S11	**Lansdale**	**SL54S11**	**(3674)**
	National	DM54S11	
	TI	SN54S11	
54S112	GoldStar	GD54S112	
	Lansdale	**SL54S112**	**(3674)**
	National	DM54S112	
	TI	SN54S112	
54S113	Lansdale	SL54S113	
	National	DM54S113	
	TI	SN54S113	
54S114	TI	SN54S114	
54S133	GoldStar	GD54S133	
	Lansdale	**SL54S133**	**(3674)**
	National	DM54S133	
	TI	SN54S133	
54S134	Lansdale	SL54S134	
	TI	SN54S134	
54S135	Lansdale	SL54S135	
	TI	SN54S135	
54S138	GoldStar	GD54S138	
	Lansdale	**SL54S138**	**(3674)**
	National	DM54S138	
	TI	SN54S138	
54S139	GoldStar	GD54S139	
	Lansdale	**SL54S139**	**(3674)**
	National	DM54S139	
	TI	SN54S139	
54S140	**Lansdale**	**SL54S140**	**(3674)**
	National	DM54S140	
	TI	SN54S140	
54S15	TI	SN54S15	
54S151	**Lansdale**	**SL54S151**	**(3674)**
	National	DM54S151	
	TI	SN54S151	
54S153	GoldStar	GD54S153	
	Lansdale	**SL54S153**	**(3674)**
	National	DM54S153	
	TI	SN54S153	
54S157	GoldStar	GD54S157	
	Lansdale	**SL54S157**	**(3674)**
	National	DM54S157	
	TI	SN54S157	
54S158	GoldStar	GD54S158	
	Lansdale	**SL54S158**	**(3674)**
	National	DM54S158	
	TI	SN54S158	
54S163	National	DM54S163	
	TI	SN54S163	
54S174	GoldStar	GD54S174	
	Lansdale	**SL54S174**	**(3674)**
	National	DM54S174	
	TI	SN54S174	
54S175	GoldStar	GD54S175	
	Lansdale	**SL54S175**	**(3674)**
	National	DM54S175	
	TI	SN54S175	
54S181	**Lansdale**	**SL54S181**	**(3674)**
	TI	SN54S181	
54S182	TI	SN54S182	
54S189	**Lansdale**	**SL54S189**	**(3674)**
	National	DM54S189	
		DM54S189A	
54S194	**Lansdale**	**SL54S194**	**(3674)**
	National	DM54S194	
	TI	SN54S194	
54S195	**Lansdale**	**SL54S195**	**(3674)**
	National	DM54S195	
	TI	SN54S195	

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Manufacturer Device	Replacement Source	Device	IC Master Page
54S20	GoldStar	GD54S20	
	Lansdale	**SL54S20**	**(3674)**
	National	DM54S20	
	TI	SN54S20	
54S22	TI	SN54S22	
54S226	**Lansdale**	**SL54S225**	**(3674)**
54S240	AMD	AM54S240	
	National	DM54S240	
	Philips	54S240	
	TI	SN54S240	
54S241	AMD	AM54S241	
	National	DM54S240	
	Philips	54S241	
	TI	SN54S241	
54S244	AMD	AM54S244	
	National	DM54S244	
	Philips	54S244	
	TI	SN54S244	
54S251	GoldStar	GD54S251	
	Lansdale	**SL54S251**	**(3674)**
	National	DM54S251	
	TI	SN54S251	
54S253	**Lansdale**	**SL54S253**	**(3674)**
	National	DM54S253	
54S257	GoldStar	GD54S257	
	Lansdale	**SL54S257**	**(3674)**
	National	DM54S257	
	TI	SN54S257	
54S258	**Lansdale**	**SL54S258**	**(3674)**
	National	DM54S258	
	TI	SN54S258	
54S260	**Lansdale**	**SL54S260**	**(3674)**
	TI	SN54S260	
54S283	National	DM54S283	
	TI	SN54S283	
54S30	GoldStar	GD54S30	
	National	DM54S30	
	TI	SN54S30	
54S374	GoldStar	GD54S374	
	Lansdale	**SL54S374**	**(3674)**
	TI	SN54S374	
54S40	**Lansdale**	**SL54S40**	**(3674)**
	National	DM54S40	
	TI	SN54S40	
54S51	GoldStar	GD54S51	
	Lansdale	**SL54S51**	**(3674)**
	TI	SN54S51	
54S65	TI	SN54S65	
54S74	GoldStar	GD54S74	
	Lansdale	**SL54S74**	**(3674)**
	TI	SN54S74	
54147	TI	SN54147	
54181	**Lansdale**	**ML54181**	**(3668)**
		SL54181	
	Rochester	9341	
54182	**Lansdale**	**ML54182**	**(3668)**
		SL54182	
	Rochester	9342	
54365	National	54365	
	TI	SN54365	
5483	National	5483	
	TI	5483	
5522	National	DS5522	
	TI	SN5522	
55461	TI	SN55461	
6012	AMD	AM6012	
686	AMD	AM686	
734LS42	Lansdale	SL74LS42	
74ALS00	National	74ALS00	
	TI	SN74ALS00	
74ALS10	National	74ALS10	
	TI	SN74ALS10	
74ALS1242	TI	SN4ALS1242	
74ALS138	National	74ALS138	
	TI	SN74ALS138	
74ALS174	National	74ALS174	
	TI	SN74ALS174	
74ALS21	National	74ALS21	
74ALS240	National	DM74ALS240	
	TI	SN74ALS240	
74ALS241	National	DM74ALS241	
	TI	SN74ALS241	
74ALS244	National	DM74ALS244	
	TI	SN74ALS244	
74ALS245	National	DM74ALS245	
	TI	SN74ALS245	
74ALS251	National	DM74ALS251	
	TI	SN74ALS251	
74ALS253A	National	DM74ALS253	
	TI	SN74ALS253	
74ALS257	National	DM74ALS257	
	TI	SN74ALS257	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
74ALS258	National	DM74ALS258	
	TI	SN74ALS258	
74ALS30	National	DM74ALS30	
	TI	SN74ALS30	
74ALS32	National	DM74ALS32	
	TI	SN74ALS32	
74ALS373	National	DM74ALS373	
	TI	SN74ALS373	
74ALS38	National	DM74ALS38	
	TI	SN74ALS38	
74ALS521	National	DM74ALS521	
	TI	SN74ALS521	
74ALS534	National	DM74ALS534	
	TI	SN74ALS534	
74ALS573	National	DM74ALS573	
	TI	SN74ALS573	
74ALS574	National	DM74ALS574	
	TI	SN74ALS574	
74ALS74	National	DM74ALS74	
	TI	SN74ALS74	
74ALS804	National	DM74ALS804	
74F04	National	74F04	
	TI	SN74F04	
74F109	National	74F109	
	TI	SN74F109	
74F139	National	74F139	
	TI	SN74F139	
74F153	National	74F153	
	TI	SN74F153	
74F161	National	74F161	
	TI	SN74F161	
74F164	National	74F164	
	TI	SN74F164	
74F175	National	74F175	
	TI	SN74F175	
74F20	National	74F20	
	TI	SN74F20	
74F240	National	74F240	
	TI	SN74F240	
74F241	National	74F241	
	TI	SN74F241	
74F243	National	74F243	
	TI	SN74F243	
74F244	National	74F244	
	TI	SN74F244	
74F251A	National	74F251	
	TI	SN74F251	
74F257A	National	74F257	
	TI	SN74F257	
74F352	National	74F352	
	TI	SN74F352	
74F373	National	74F373	
	TI	SN74F373	
74F374	National	74F374	
	TI	SN74F374	
74F398	National	74F398	
	TI	SN74F398	
74HCT00	National	MM74HCT00	
	TI	SN74HCT00	
74HCT04	National	MM74HCT04	
	TI	SN74HCT04	
74HCT05	National	MM74HCT05	
	TI	SN74HCT05	
74HCT138	National	MM74HCT138	
	TI	SN74HCT138	
74HCT191	National	MM74HCT191	
	TI	SN74HCT191	
74HCT240	National	MM74HCT240	
	TI	SN74HCT240	
74HCT241	National	MM74HCT241	
	TI	SN74HCT241	
74HCT273	National	MM74HCT273	
	TI	SN74HCT273	
74HCT34	National	MM74HCT34	
	TI	SN74HCT34	
74HCT533	National	MM74HCT533	
	TI	SN74HCT533	
74HCT620	National	MM74HCT620	
	TI	SN74HCT620	
74HCT640	National	MM74HCT640	
	TI	SN74HCT640	
74HCT643	National	MM74HCT643	
	TI	SN74HCT643	
74HCT74	National	MM74HCT74	
	TI	SN74HCT74	
74HC04	National	MM74HC04	
	TI	SN74HC04	
74HC107	National	MM74HC107	
	TI	SN74HC107	
74HC11	National	MM74HC11	
	TI	SN74HC11	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74HC113	National	MM74HC113	
	TI	SN74HC113	
74HC114	Mitsubishi	M74HC114	
	TI	SN74HC114	
74HC125	National	MM74HC125	
	TI	SN74HC125	
74HC126	National	MM74HC126	
	TI	SN74HC126	
74HC133	National	MM74HC133	
	TI	SN74HC133	
74HC139	National	MM74HC139	
	TI	SN74HC139	
74HC152	TI	SN74HC152	
74HC153	National	MM74HC153	
	TI	SN74HC153	
74HC173	National	MM74HC173	
	TI	SN74HC173	
74HC174	National	MM74HC174	
	TI	SN74HC174	
74HC175	National	MM74HC175	
	TI	SN74HC175	
74HC180	TI	SN74HC180	
74HC181	National	MM74HC181	
	TI	SN74HC181	
74HC192	National	MM74HC192	
	TI	SN74HC192	
74HC193	National	MM74HC193	
	TI	SN74HC193	
74HC194	National	MM74HC194	
	TI	SN74HC194	
74HC237	National	MM74HC237	
	TI	SN74HC237	
74HC240	National	MM74HC240	
	TI	SN74HC240	
74HC241	National	MM74HC241	
	TI	SN74HC241	
74HC242	National	MM74HC242	
	TI	SN74HC242	
74HC243	National	MM74HC243	
	TI	SN74HC243	
74HC251	National	MM74HC251	
	TI	SN74HC251	
74HC253	National	MM74HC253	
	TI	SN74HC253	
74HC257	National	MM74HC257	
	TI	SN74HC257	
74HC266	National	MM74HC266	
	TI	SN74HC266	
74HC266A	National	MM74HC266A	
74HC354	National	MM74HC354	
	TI	SN74HC354	
74HC366	National	MM74HC366	
	TI	SN74HC366	
74HC368	National	MM74HC368	
	TI	SN74HC368	
74HC390	National	MM74HC390	
	TI	SN74HC390	
74HC393	National	MM74HC393	
	TI	SN74HC393	
74HC4002	National	MM74HC4002	
74HC4016	National	MM74HC4016	
74HC4020	National	MM74HC4020	
74HC4046	National	MM74HC4046	
74HC4060	National	MM74HC4060	
74HC4066	National	MM74HC4066	
74HC4075	National	MM74HC4075	
74HC4316	National	MM74HC4316	
74HC4514	National	MM74HC4514	
74HC4543	National	MM74HC4543	
74HC51	National	MM74HC51	
	TI	SN74HC51	
74HC533	National	MM74HC533	
	TI	SN74HC533	
74HC534	National	MM74HC534	
	TI	SN74HC534	
74HC563	National	MM74HC563	
	TI	SN74HC563	
74HC58	National	MM74HC58	
	TI	SN74HC58	
74HC597	National	MM74HC597	
	TI	SN74HC597	
74HC604	Mitsubishi	M74HC604	
	TI	SN74HC604	
74HC620	TI	SN74HC620	
74HC640	TI	SN74HC640	
74HC643	TI	SN74HC643	
74HC646	TI	SN74HC646	
74HC677	TI	SN74HC677	
74HC7022	TI	SN74HC7022	
74HC73	National	MM74HC73	
	TI	SN74HC73	
74HC74	National	MM74HC74	
	TI	SN74HC74	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74HC75	National	MM74HC75	
	TI	SN74HC75	
74HC76	National	MM74HC76	
	TI	SN74HC76	
74HC77	National	MM74HC77	
	TI	SN74HC77	
74HC78	National	MM74HC78	
	TI	SN74HC78	
74HC804	National	MM74HC804	
	TI	SN74HC804	
74HC85	National	MM74HC85	
	TI	SN74HC85	
74HC86	National	MM74HC86	
	TI	SN74HC86	
74H00	**Lansdale**	**ML74H00**	(3669)
		SL74H00	
	Rochester	RC3000	
		RC3100	
74H01	**Lansdale**	**ML74H01**	(3669)
		SL74H01	
	OKI	74H000	
	Rochester	RC3004	
74H04	**Lansdale**	**ML74H04**	(3669)
	Rochester	RC3008	
74H05	**Lansdale**	**ML74H05**	(3669)
	Rochester	RC3009	
74H08	**Lansdale**	**ML74H08**	(3669)
		SL74H08	
	Rochester	RC3001	
74H10	**Lansdale**	**ML74H10**	(3669)
		SL74H10	
	Rochester	RC3005	
74H101	**Lansdale**	**ML74H101**	(3669)
74H103	**Lansdale**	**ML74H103**	(3669)
74H108	**Lansdale**	**ML74H108**	(3669)
74H11	**Lansdale**	**ML74H11**	(3669)
		SL74H11	
	Rochester	RC3006	
74H198	National	DM74H198	
	TI	SN74H198	
74H20	**Lansdale**	**ML74H20**	(3669)
		SL74H20	
	Rochester	RC3010	
74H21	**Lansdale**	**ML74H21**	(3669)
		SL74H21	
	Rochester	RC3011	
74H22	**Lansdale**	**ML74H22**	(3669)
		SL74H22	
	Rochester	RC3012	
74H30	**Lansdale**	**ML74H30**	(3669)
		SL74H30	
	Rochester	RC3016	
74H40	**Lansdale**	**ML74H40**	(3669)
		SL74H40	
	Rochester	RC3024	
74H50	**Lansdale**	**ML74H50**	(3669)
	Rochester	RC3020	
74H51	**Lansdale**	**ML74H51**	(3669)
74H52	**Lansdale**	**ML74H52**	(3669)
		SL74H52	
	Rochester	RC3031	
74H53	**Lansdale**	**ML74H53**	(3669)
74H54	**Lansdale**	**ML74H54**	(3669)
		SL74H54	
	Rochester	RC3032	
74H55	**Lansdale**	**ML74H55**	(3669)
		SL74H55	
	Rochester	RC3034	
74H60	Lansdale	ML74H60	
		SL74H60	
	Rochester	RC3030	
74H61	**Lansdale**	**ML74H61**	(3669)
74H62	**Lansdale**	**ML74H62**	(3669)
		SL74H62	
	Rochester	RC3018	
74H71	Lansdale	ML74H71	
		SL74H71	
	Rochester	RC3054	
74H72	**Lansdale**	**ML74H72**	(3669)
		SL74H72	
	Rochester	RC3055	
74H73	**Lansdale**	**ML74H73**	(3669)
		SL74H73	
	Rochester	RC3063	
74H74	**Lansdale**	**ML74H74**	(3669)
		SL74H74	
74H76	**Lansdale**	**ML74H87**	(3669)
	Rochester	74H87	
74H87	**Lansdale**	**ML74H87**	(3669)
	Rochester	74H76	
74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	(3674)
	Motorola	SN74LS00	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74LS00			(Cont'd)
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	SGS-Thomson		
		T74LS00	
		74LS00	
	TI	SN74LS00	
74LS03	Motorola	SN74LS03	
	National	DM74LS03	
		74LS03	
	SGS-Thomson		
		T74LS03A	
		74LS03	
	TI	SN74LS03	
74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	(3674)
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
	SGS-Thomson		
		T74LS04	
		74LS04	
	TI	SN74LS04	
74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	(3674)
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
	SGS-Thomson		
		T74LS05	
		74LS05	
	TI	SN74LS05	
74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	(3674)
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
	SGS-Thomson		
		T74LS08	
		74LS08	
	TI	SN74LS08	
74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	(3674)
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
	SGS-Thomson		
		T74LS09	
		74LS09	
	TI	SN74LS09	
74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	(3674)
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
	SGS-Thomson		
		T74LS10	
		74LS10	
	TI	SN74LS10	
74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	(3674)
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
	SGS-Thomson		
		T74LS11	
		74LS11	
	TI	SN74LS11	
74LS112	National	DM74LS112	
	TI	SN74LS112	
74LS113	**Lansdale**	**SL74LS113**	(3674)
	Motorola	SN74LS113A	
	SGS-Thomson		
		T74LS113A	
	TI	SN74LS113A	
74LS114	Motorola	SN74LS114A	
	SGS-Thomson		
		T74LS114A	
	TI	SN74LS114A	
74LS12	Motorola	SN74LS12	
	National	DM74LS12	
		74LS12	
	SGS-Thomson		
		T74LS12	
		74LS12	
	TI	SN74LS12	
74LS132	National	DM74LS132	
	TI	SN74LS132	
74LS138	National	DM74LS138	
	TI	SN74LS138	
74LS152	SGS-Thomson		
		T74LS152	
		74LS152	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
74LS153	National	DM74LS153	
	TI	SN74LS153	
74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
	SGS-Thomson		
		T74LS158	
		74LS158	
	TI	SN74LS158	
74LS164	National	DM74LS164	
	TI	SN74LS164	
74LS169	**Lansdale**	**SL74LS169A**	**(3674)**
	Motorola	SN74LS169	
	National	DM74LS169A	
		74LS169	
	SGS-Thomson		
		T74LS169	
		74LS169	
	TI	SN74LS169B	
74LS174	National	DM74LS174	
	TI	SN74LS174	
74LS175	National	DM74LS175	
	TI	SN74LS175	
74LS19	TI	SN74LS19	
74LS194	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	**(3674)**
	Motorola	SN74LS194A	
	National	DM74LS194A	
	SGS-Thomson		
		T74LS194A	
		74LS194	
	TI	SN74LS194A	
74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
	TI	SN74LS20	
74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
	TI	SN74LS21	
74LS22	Motorola	SN74LS22	
	SGS-Thomson		
		T74LS22	
		74LS22	
	TI	SN74LS219A	
74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
	TI	SN74LS245	
74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	**(3674)**
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
	SGS-Thomson		
		T74LS251	
		74LS251	
	TI	SN74LS251	
74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
	SGS-Thomson		
		T74LS253	
		74LS253	
	TI	SN74LS253	
74LS257	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
		74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
	TI	SN74LS257B	
74LS258	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
		74LS258	
	SGS-Thomson		
		T74LS258A	
		74LS258	
	TI	SN74LS258B	
74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
	TI	SN74LS259B	
74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
	TI	SN74LS26	
74LS266	TI	SN74LS266	
74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
	TI	SN74LS27	
74LS279	Motorola	SN74LS279	
	National	DM74LS279	
		74LS279	
	SGS-Thomson		
		T74LS279	
		74LS279	
	TI	SN74LS279A	
74LS283	National	DM74LS283	
	TI	SN74LS283	
74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
	SGS-Thomson		
		T74LS30	
		74LS30	
	TI	SN74LS30	
74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
	TI	SN74LS31	
		SN74LS32	
74LS321	TI	SN74LS321	
74LS365	**Lansdale**	**SL74LS365A**	**(3674)**
	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
	SGS-Thomson		
		T74LS365A	
		74LS365A	
	TI	SN74LS365A	
74LS367	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A	
		74LS367	
	SGS-Thomson		
		T74LS367A	
		74LS367A	
	TI	SN74LS367A	
74LS368	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
	SGS-Thomson		
		T74LS368A	
		74LS368A	
	TI	SN74LS368A	
74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37	
		74LS37	
	SGS-Thomson		
		T74LS37	
		74LS37	
	TI	SN74LS37	
74LS373	National	DM74LS373	
74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	
	SGS-Thomson		
		T74LS38	
		74LS38	
	TI	SN74LS38	
74LS382	TI	SN74LS382	
74LS386	Motorola	SN74LS386	
	National	74LS386	
	TI	SN74LS382A	
74LS42	GoldStar	GD74LS42	
	Motorola	SN74LS42	
	National	DM74LS42	
		74LS42	
	SGS-Thomson		
		T74LS42	
		74LS42	
	TI	SN74LS42	
74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
	SGS-Thomson		
		T74LS51	
		74LS51	
	TI	SN74LS51	
74LS55	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	National	74LS55	
	SGS-Thomson		
		T74LS541B1	
		T74LS55	
		74LS55	
	TI	SN74LS55	
74LS591	TI	SN74LS591	
74LS623	**Lansdale**	**SL74LS623**	**(3674)**
	Motorola	SN74LS623	
	TI	SN74LS623	
74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	DM74LS670	
		74LS670	
	SGS-Thomson		
		T74LS670	
		74LS670	
	TI	SN74LS670	
74LS74	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74	
		74LS74	
	SGS-Thomson		
		T74LS74A	
		74LS74	
	TI	SN74LS74A	
74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748	
		SN74LS75	
	National	DM74LS75	
	SGS-Thomson		
		T74LS75	
	TI	SN74LS75	
74LS83	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A	
		74LS83	
	SGS-Thomson		
		T74LS83A	
		74LS83A	
	TI	SN74LS83A	
74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
	National	DM74LS85	
		74LS85	
	TI	SN74LS85	
74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
	SGS-Thomson		
		T74LS86	
		74LS86	
	TI	SN74LS86A	
74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	SGS-Thomson		
		T74LS90	
		74LS90	
	TI	SN74LS90	
74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	SGS-Thomson		
		T74LS93	
		74LS93	
	TI	SN74LS93	
74L20	National	DM74L20	
	TI	SN74L20	
74S00	National	DM74S00	
	TI	SN74S00	
74S02	National	DM74S02	
	TI	SN74S02	
74S03	**Lansdale**	**SL74S03**	**(3675)**
	National	DM74S03	
		74S03	
	TI	SN74S03	
74S04	GoldStar	GD74S04	
	Lansdale	**SL74S04**	**(3675)**
	National	DM74S04	
		74S04	
	TI	SN74S04	
74S05	GoldStar	GD74S05	
	Lansdale	**SL74S05**	**(3675)**
	National	DM74S05	
		74S05	
	TI	SN74S05	
74S08	National	DM74S08	
	TI	SN74S08	
74S09	National	DM74S09	
	TI	SN74S09	
74S10	National	DM74S10	
	TI	SN74S10	
74S11	**Lansdale**	**SL74S11**	**(3675)**
	National	DM74S11	
		74S109	
		74S11	
	TI	SN74S11	
74S112	GoldStar	GD74S112	
	Lansdale	**SL74S112**	**(3675)**
	National	DM74S112	
		74S112	
	TI	SN74S112	
74S113	Lansdale	SL74S113	
	National	DM74S113	
	TI	SN74S113	
74S114	TI	SN74S114	
74S133	GoldStar	GD74S133	
	Lansdale	**SL74S133**	**(3675)**
	National	DM74S133	
		74S133	
	TI	SN74S133	
74S134	**Lansdale**	**SL74S134**	**(3675)**
	TI	SN74S134	
74S135	Lansdale	SL74S135	
	National	74S135	
	TI	SN74S135	
74S138	National	DM74S138	
	TI	SN74S138	
74S139	GoldStar	GD74S139	
	Lansdale	**SL74S139**	**(3675)**
	National	DM74S139	
		74S139	
	TI	SN74S139	
74S140	National	DM74S140	
	TI	SN74S140	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Rochester Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74S15	TI	SN74S15	
74S151	**Lansdale**	**SL74S151**	**(3675)**
	National	DM74S151	
		74S151	
	TI	SN74S151	
74S153	GoldStar	GD74S153	
	Lansdale	**SL74S153**	**(3675)**
	National	DM74S153	
		74S153	
	TI	SN74S153	
74S157	GoldStar	GD74S157	
	Lansdale	**SL74S157**	**(3675)**
	National	DM74S157	
		74S157	
	TI	SN74S157	
74S158	GoldStar	GD74S158	
	Lansdale	**SL74S158**	**(3675)**
	National	DM74S158	
		74S158	
	TI	SN74S158	
74S163	National	DM74S163	
	TI	SN74S163	
74S168	National	DM74S168	
	TI	SN74S168	
74S174	GoldStar	GD74S174	
	Lansdale	**SL74S174**	**(3675)**
	National	DM74S174	
		74S174	
	TI	SN74S174	
74S175	National	DM74S175	
	TI	SN74S175	
74S178	National	DM74S178	
	TI	SN74S178	
74S181	National	DM74S181	
	TI	SN74S181	
74S182	National	DM74S182	
	TI	SN74S182	
74S189	National	DM74S189	
	TI	SN74S189	
74S194	**Lansdale**	**SL74S194**	**(3675)**
	National	DM74S194	
		74S194	
	TI	SN74S194	
74S195	National	DM74S195	
	TI	SN74S195	
74S20	GoldStar	GD74S20	
	Lansdale	**SL74S20**	**(3675)**
	National	DM74S20	
		74S20	
	TI	SN74S20	
74S22	National	DM74S22	
	TI	SN74S22	
74S226	National	DM74S226	
	TI	SN74S226	
74S240	National	DM74S240	
	TI	SN74S240	
74S241	National	DM74S241	
	TI	SN74S241	
74S244	National	DM74S244	
	TI	SN74S244	
74S251	National	DM74S251	
	TI	SN74S251	
74S253	National	DM74S253	
	TI	SN74S253	
74S257	GoldStar	GD74S257	
	Lansdale	**SL74S257**	**(3675)**
	National	DM74S257	
		74S257	
	TI	SN74S257	
74S258	**Lansdale**	**SL74S258**	**(3675)**
	National	DM74S258	
		74S258	
	TI	SN74S258	
74S260	**Lansdale**	**SL74S260**	**(3675)**
	TI	SN74S260	
74S283	National	DM74S283	
	TI	SN74S283	
74S289	National	DM74S289	
74S30	GoldStar	GD74S30	
	National	DM74S30	
		74S30	
	TI	SN74S30	
74S32	National	DM74S32	
	TI	SN74S32	
74S373	National	DM74S373	
	TI	SN74S373	
74S374	National	DM74S374	
	TI	SN74S374	
74S38	National	DM74S38	
	TI	SN74S38	
74S40	National	DM74S40	
	TI	SN74S40	
74S51	National	DM74S51	
	TI	SN74S51	
74S64	GoldStar	GD74S64	
	Lansdale	**SL74S64**	**(3675)**
	National	DM74S64	
		74S64	
	TI	SN74S64	
74S65	National	DM74S65	
	TI	SN74S65	
74S74	GoldStar	GD74S74	
	Lansdale	**SL74S74**	**(3675)**
	National	DM74S74	
		74S74	
	TI	SN74S74	
74S86	GoldStar	GD74S86	
	Lansdale	**SL74S86**	**(3675)**
	National	DM74S86	
		74S86	
	TI	SN74S86	
7404	National	7404	
	TI	SN7404	
74152A	TI	SN74152A	
7449	National	7449	
	TI	SN7449	
7490A	National	7490	
	Philips	7490	
7491A	National	DM7491	
	TI	SN7491	
7493A	National	DM7493	
	TI	SN7493	
7520	National	DS7520	
75512A	TI	SN75512A	
7579	National	DM54166	
		7579	
	Philips	54166	
	TI	SN54166	
9015	National	9015	
9017	National	9017	
9022	National	9022	
93S48	AMD	AM93S48	
9334	National	DM9334	
9341	Rochester	54181	
9342	Rochester	54182	
952	Motorola	MC952	

Rockwell International

Manufacturer Device	Replacement Source	Device	IC Master Page
R2816	Catalyst Semi	CAT28C16	
R65C02	CMD Micro	G65SC02	
◆ R65C02	CMD Micro	G65SC02	
	Commodore	MPS65C02	
	NCR	NCR65C02	
	VLSI Tech	VL65C02	
R65C102	CMD Micro	G65SC102	
R65C112	CMD Micro	G65SC112	
R65C21	CMD Micro	G65C21	
	Motorola	MC6821	
	NCR	NCR65C21	
R65C22	CMD Micro	G65SC22	
	NCR	NCR65C22	
R65C51	American Micro	S65C51	
	CMD Micro	G65SC51	
R65NC22	VLSI Tech	VL65NC22	
R6500	Commodore	MPS6500	
	NCR	NCR6500	
R6501	Commodore	MPS6501	
	NCR	NCR6501	
R6502	Commodore	MPS6502	
	UMC	UM6502	
R6507	Commodore	MPS6507	
	UMC	UM7507	
R6511	NCR	NCR6511	
R6512	Commodore	MPS6512	
	NCR	NCR6512	
	UMC	UM6512	
R6513	NCR	NCR6513	
R6520	Commodore	MPS6520	
	Motorola	MC6821	
R6522	Commodore	R6522	
	UMC	UM6522	
	VLSI Tech	VL65C22	
R6532	Commodore	MPS6532	
	UMC	UM6532	
R6545	Krueger	6845	
	Motorola	MC68A45	
		MC68B45	
		MC6845	
	UMC	UM6845	
R6551	American Micro	S6551	
	Commodore	MPS6551	
	UMC	UM6551	
	VLSI Tech	VL6551	
R6765	Krueger	765	
54H20	Rochester	RC3110	
6514	Krueger	21C14-150	
		21C14-200	
		21C14-450	

ROHM

Manufacturer Device	Replacement Source	Device	IC Master Page
BA082	NJR	NJM082	
BA10324	NJR	NJM324	
BA10358	**NJR**	**NJM2904**	**(3704)**
BA13600	NJR	NJM13600	
BA14741	Panasonic	NJM4741	
BA15218	**NJR**	**NJM4560**	**(3704)**
BA15532	**NJR**	**NJM5532**	**(3704)**
BA15534	**NJR**	**NJM5534**	**(3704)**
BA4558	**NJR**	**NJM4558**	**(3704)**
	Samsung	MC4558	
BA4560	**NJR**	**NJM4560**	**(3704)**
BA6924	NJR	NJM2902	
		NJM324	
BA71	**NJR**	**NJM4558**	**(3704)**
BA728	**NJR**	**NJM2904**	**(3704)**
BR28C16	EXEL	XL28C16	
BR2804	EXEL	XL2804	
BR2816	EXEL	XL2816	
	Samsung	KM28C16	
BR2864	EXEL	XL2864	
	Samsung	KM28C64	
BR2865	EXEL	XL2865	
	Samsung	KM28C65	
BR46C15	EXEL	XL46C15	
BR9021	EXEL	XL90C21	
BR93CS46	EXEL	XL93CS46	
BR93C46	EXEL	XL93C46	
		XL93LC46	
	OKI	MSM16811	
	Samsung	KM93C46	
BR93C56	EXEL	XL93C56	
	OKI	MSM16812	
BU2029	**NJR**	**NJU3713**	**(3705)**
		NJU3714	
BU2040	**NJR**	**NJU3713**	**(3705)**
		NJU3714	
BU2042	**NJR**	**NJU3713**	**(3705)**
		NJU3714	
BU2114	**NJR**	**NJU3711**	**(3705)**
		NJU3712	**(3705)**
BU8320	UMC	UM91270	

S-MOS Systems

Manufacturer Device	Replacement Source	Device	IC Master Page
SED1600	**Krueger**	**LCD1600**	**(3663)**
SPM27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	TI	TMS27C256	
		TMS27PC256	
SPM27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
SPM27129C	TI	TMS27C128	
		TMS27PC128	
SRM20100	Hyundai	HY628100	
SRM201000	Toshiba	TC551001	
SRM2016	GoldStar	GM76C28	
	Harris	HM65162	
	Hyundai	HY6116A	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Sharp	LH5116	
	UMC	UM6116	
SRM2018	Sharp	LH5116	
SRM20256	GoldStar	GM76C256	
	Hyundai	HY62256A	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mosel-Vitelic	MS62256	
		MS62256A	
	Sharp	LH52250AL	
	Toshiba	TC55257	
	UMC	UM62256	
SRM2064	GoldStar	GM76C88	
	Harris	HM65642	
SRM2064 (Cont'd)	**Krueger**	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
		6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
	Mosel-Vitelic	MS6264	
SRM2114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
	Sharp	LH5114H	
	UMC	UM6104	
SRM21256	Krueger	62256-025	
		62256-030	
		62256-035	
	LogicDev	L7C194	
		L7C199	
	Sharp	LH52252	
	Toshiba	TC55464	
SRM2256	Toshiba	TC55328	
SRM2257	LogicDev	L7C199	
SRM2264	Harris	HM65642	
	Hyundai	HY6264A	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
		6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
	Sharp	LH5168	
	Toshiba	TC5563	
	UMC	UM6264	
SRM2267	Harris	HM65262	
	LogicDev	L7C167	
SRM2268	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
SRM2274	LogicDev	L7C164	
	Toshiba	TC55416	
SRM2275	LogicDev	L7C166	
	Toshiba	TC55417	
SRM2367	Harris	HM65262	
	LogicDev	L7C167	
SRM6504	Harris	HM6504	
SRM6514	Harris	HM6514	
STC2580	UMC	UM91261	
S7230	UMC	UM91230	
S7235	UMC	UM91230	
S7241	UMC	UM91271	

Samsung Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
CPL16L8	Lattice	GAL16V8	
CPL16R4	Lattice	GAL16V8	
CPL16R6	Lattice	GAL16V8	
CPL16R8	Lattice	GAL16V8	
CPL20L8	Lattice	GAL20V8	
CPL20R4	Lattice	GAL20V8	
CPL20R6	Lattice	GAL20V8	
CPL20R8	Lattice	GAL20V8	
◆ KA2209	Panasonic	AN7118	
	Sanyo	LA4530	
	SGS-Thomson	TDA2822	
	Toshiba	TA7376	
◆ KA2220	NEC	µPC1158	
	Panasonic	AN7320	
	ROHM	BA333	
	Sanyo	LA3210	
	Toshiba	TA7137	
◆ KA2402	Panasonic	AN6612	
KA2580	Allegro Micro	UDN2580	
KA2588	Allegro Micro	UDN2588	
KA2807	National	LM1851	
KA2919	Unitrode	PIC7520	
KA2923	Unitrode	PIC7530	
KA301	National	LM301	
KA319	National	LM319	
KA331	National	LM331	
KA336	National	LM336	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Samsung Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
KA340	Unitrode	UC7812	
KA34063	Motorola	MC34063	
KA3524	National	LM3524	
KA3525	Motorola	SG3525	
	SGS-Thomson	SG3525	
	Unitrode	UC3525	
KA384	Astec Semi	UC384	
KA3842	Astec Semi	UC3842A	
	Micrel	**MIC38C42**	**(3685)**
		MIC38HC42	
	Motorola	UC3842	
	SGS-Thomson	UC3842	
	Unitrode	UC3842	
KA3843	Astec Semi	UC3843A	
KA3844	Astec Semi	UC3844A	
KA3845	Astec Semi	UC3845A	
KA431	Astec Semi	TL431	
	Motorola	TL431	
	National	µA431	
		LM431	
	TI	TL431	
KA710	National	LM710	
KA78S40	National	LM78S40	
KA9320	Hitachi	HD49011	
KDA0478	Raytheon	TMC0478	
KF347	National	LF347	
KF351	Harris	CA3140	
	National	LF351	
KF442	National	LF442	
KMM36256	Motorola	MCM36256	
		MCM36512	
	TI	TM256BK36B	
KMM36512	Motorola	MCM36512	
	TI	TM512LBK36B	
		TM512LBK36C	
KMM5321000	MicronSemi	MT8D132	
KMM5322000	MicronSemi	MT16D232	
KMM5361000	Hitachi	HB56D136	
	MicronSemi	MT12D136	
	OKI	MSC23136	
	Peps	PEP1MX36	
	Toshiba	THM361020	
KMM5362000	Hitachi	HB56D236	
	MicronSemi	MT24D236	
	OKI	MSC23236	
	Peps	PEP2MX36	
KMM536256	Hitachi	HB56D25636	
	Peps	PEP25636	
	Toshiba	THM362500	
KMM5362568A	OKI	MSC2320A	
KMM536512	Hitachi	HB56D51236	
	Peps	PEP51236	
	Toshiba	THM365120	
KMM536512B	OKI	MSC2321A	
KMM5401000	Peps	PEP1MX40	
KMM5402000	Peps	PEP2MX40	
KMM581000	Hitachi	HB56A18	
	MicronSemi	MT2D18	
		MT8D18	
	Mitsubishi	MH1M08	
	Motorola	MCM81000	
	NEC	MC421000A8	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
	Toshiba	THM81000	
KMM581000A	OKI	MSC2313A	
KMM581000A/P	Peps	PEP1MX8	
KMM58256	Hitachi	HB56D25608	
	Mosel-Vitelic	V256J8	
	NEC	MC41256A8	
	TI	TM4256GU8	
KMM58256/AP	Peps	PEP4256EL8	
KMM584000	Hitachi	HB56A48	
	MicronSemi	MT8D48	
	Peps	PEP4MX8	
KMM584000A	OKI	MSC23408	
KMM591000	Hitachi	HB56A19	
	MicronSemi	MT3D19	
		MT9D19	
	Mitsubishi	MH1M09	
	Motorola	MCM91000	
	NEC	MC421000A9	
	TI	TM024EAD9	
		TM024GAD9	
		TM124EAD9C	
	Toshiba	THM91000A	
KMM591000A	OKI	MSC23109	
		MSC2312A	
KMM591000A/N	Peps	PEP1MX9	
KMM59256	Hitachi	HB56D25609	
	Mosel-Vitelic	V256J9	
	NEC	MC41256A9	
	TI	TM4256GU9	
KMM59256/AN	Peps	PEP4256EL9	
KMM59400	MicronSemi	MT9D49	
KMM594000	Hitachi	HB56A49	
	Peps	PEP4MX9	
KMM594000A	OKI	MSC23409	
KM23C1000	Fujitsu	MB831124	
	Hitachi	HN62321	
		HN62331	
	Mitsubishi	M5M23C100	
		M5M231000	
	NEC	µPD23C1000	
	Sharp	LH531000	
	Toshiba	TC531000	
		TC531024	
	UMC	UM23C1024	
KM23C1001	Mitsubishi	M5M231001	
	NEC	µPD23C1010	
KM23C1010	NEC	µPD23C1001	
	Sharp	LH530800	
	Toshiba	TC531001	
KM23C1011	Sharp	LH530900	
KM23C16000	Hitachi	HN62401	
	NEC	µPD23C16000	
	Sharp	LH5316000	
		LH5375	
KM23C2000	Fujitsu	MB832000	
		MB832001	
	NEC	µPD23C2001	
	Sharp	LH532100	
		LH532300	
	Sony	CXK382001	
	UMC	UM23C2001	
KM23C2100	Hitachi	HN62412	
		HN62422	
	NEC	µPD23C2000	
	Sharp	LH532000	
		LH532500	
KM23C4000	Fujitsu	MB834100	
	Mitsubishi	M5M23C401	
	NEC	µPD23C4001	
	Sharp	LH534100	
		LH534300	
	Sony	SXK384001	
	Toshiba	TC534000	
	UMC	UM23C4001	
KM23C4001	Sharp	LH534200	
		LH534400	
KM23C4100	Hitachi	HN62404	
		HN62424	
	Mitsubishi	M5M23C400	
	NEC	µPD23C4000	
	Sharp	LH534000	
		LH534500	
KM23C512	UMC	UM23C512	
KM23C8000	Fujitsu	MB83800	
	Sharp	LH5381	
		LH538100	
		LH538200	
KM23C8100	Hitachi	HN62408	
	NEC	µPD23C8000	
	Sharp	LH5380	
		LH538000	
KM23128	UMC	UM23C128	
KM23256	UMC	UM23C256	
KM23257	UMC	UM23C256	
KM2365	UMC	UM23C64	
KM28C16	ATMEL	AT28C16	
	EXEL	XL28C16	
		XL2816	
	OKI	MSM28C16	
	ROHM	BR2816	
	SEEQ	DQ2816	
		DQ5516	
	Xicor	X2816	
KM28C17	ATMEL	AT28C17	
	EXEL	XL2817	
	SEEQ	DQ2817	
		DQ5517	
KM28C256	ATMEL	AT28C256	
	Fujitsu	MBM28C256	
	NEC	µPD28C256	
	SEEQ	DQ28C256	
	Xicor	X28256	
		28C256	
KM28C64	ATMEL	AT28C64	
		AT28PC64	
	EXEL	XL28C64	
		XL2864	
	Fujitsu	MBH28C64	
		MBM28C64	
	NEC	µPD28C64	
	OKI	MSM28C64	
	ROHM	BR2864	
	SEEQ	DQ28C64	
	Xicor	X2864	
KM28C65	EXEL	XL2865	
	Fujitsu	MBM28C65	
	ROHM	BR2865	
	SEEQ	DQ28C65	
		DQ2864	
KM2816	Catalyst Semi	CAT28C16	
	EXEL	XL2816	
KM2817	Catalyst Semi	CAT28C17	
KM2864	Catalyst Semi	CAT28C64	
		CAT28C65	
	EXEL	XL2864	
KM2865	EXEL	XL2865	
KM41C1000	Fujitsu	MB81C1000	
	Hitachi	HM511000	
	MicronSemi	MT4C1024	
		MT4C4001	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
		MCM511000A	
	NEC	µPD421000	
	OKI	MSM511000	
	Toshiba	TC511000	
KM41C1000A	OKI	MSM511000A	
		MSM514400A	
KM41C1000B	Hyundai	HY531000	
KM41C1001	Fujitsu	MB81C1001	
	Hitachi	HM511001	
	Motorola	MCM511001	
		MCM511001A	
	NEC	µPD421001	
	OKI	MSM511001	
	TI	TMS4C1025	
	Toshiba	TC511001	
KM41C1001A	OKI	MSM511001A	
KM41C1002	Fujitsu	MB81C1002	
	Hitachi	HM511002	
	MicronSemi	MT4C1026	
	Motorola	MCM511002	
		MCM511002A	
	NEC	µPD421002	
	OKI	MSM511002	
	TI	TMS4C1027	
	Toshiba	TC511002	
KM41C1002A	OKI	MSM511002A	
		MSM514402A	
KM41C1600	MicronSemi	MT4C16MX1	
KM41C16100	Hyundai	HY511610	
		HY511640	
KM41C256	Fujitsu	MB81256	
	Hitachi	HM51256	
	Hyundai	HY53C256	
	MicronSemi	MT4C4256	
	NEC	µPD41256	
	OKI	MSM51C256	
	Toshiba	TC51256	
KM41C257	Fujitsu	MB81257	
	OKI	MSM41257	
	Toshiba	TC51257	
KM41C258	Fujitsu	MB81258	
	Hitachi	HM51258	
	MicronSemi	MT4C4258	
	Toshiba	TC51258	
KM41C400	Motorola	MCM54102A	
KM41C4000	Fujitsu	MB814100	
	Hitachi	HM514100	
	MicronSemi	MT4C1004	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
	NEC	µPD424100	
	OKI	MSM514100	
	TI	TMS44100	
	Toshiba	TC514100	
KM41C4000A	Hyundai	HY514100	
	OKI	MSM514100A	
KM41C4001	Fujitsu	MB814101	
	Hitachi	HM514101	
	Motorola	MCM54101	
		MCM54101A	
	NEC	µPD424101	
	OKI	MSM514101	
	Toshiba	TC514101	
KM41C4001A	OKI	MSM514101A	
KM41C4002	Fujitsu	MB814102	
	Hitachi	HM514102	
	MicronSemi	MT4C1004	
	Motorola	MCM54102	
	NEC	µPD424102	
	OKI	MSM514102	
	Toshiba	TC514102	
KM41C4002A	OKI	MSM514102A	
KM41C464	Fujitsu	MB81464	
	Hitachi	HM50464	
	Hyundai	HY53C464	
	NEC	µPD41464	
	OKI	MSM41464	
	Toshiba	TC51464	
KM41C466	Fujitsu	MB81466	
	Toshiba	TC51466	
KM41V4000	MicronSemi	MT4C4001	
KM41256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	
KM41464	Mosel-Vitelic	V53C464	
KM416C256	MicronSemi	MT4C16256	
		MT4C16257	
KM4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
	OKI	MSM3764	
KM42C4256	TI	TMS44C250	
		TMS44C251	
KM424C256	MicronSemi	MT42C4256	
KM424C257	Hitachi	HM534252	
		HM534253	
	MicronSemi	MT42C4256	
	Mitsubishi	M5M442256	
	NEC	µPD42274	
	TI	TMS44C251	
	Toshiba	TC524258	
		TC524259	
KM424C64	Hitachi	HM53461	
	Mitsubishi	M5M4C264	
	NEC	µPD42264	
	TI	TMS4461	
KM428C128	Hitachi	HM538121	
		HM538122	
		HM538123	
	MicronSemi	MT42C8128	
	Mitsubishi	M5M482128	
	Toshiba	TC528126	
		TC528128	
KM428C256	MicronSemi	MT42C8257	
KM43C4000	Sharp	LH534	
KM44C1000	Fujitsu	MB814400	
	Hitachi	HM514400	
	MicronSemi	MT4C4001	
	Mosel-Vitelic	V53C404	
	Motorola	MCM514400	
		MCM54400	
		MCM54400A	
	NEC	µPD42400	
		µPD424400	
	OKI	MSM514400	
	TI	TMS44100	
		TMS44400	
		TMS44410	
	Toshiba	TC514400	
KM44C1000A	Hyundai	HY514400	
KM44C1002	Fujitsu	MB814402	
	Hitachi	HM514402	
	MicronSemi	MT4C4003	
	NEC	µPD424402	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Samsung Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
KM44C1002			(Cont'd)
	OKI	MSM514402	
	Toshiba	TC514402	
KM44C256	Fujitsu	MB81C4256	
	Hitachi	HM514256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	Motorola	MCM514256	
		MCM514256A	
	NEC	µPD424256	
	OKI	MSM514256	
	TI	TMS44C256	
	Toshiba	TC514256	
KM44C256A	Mosel-Vitelic	V53C104	
		V53C104B	
	OKI	MSM514256A	
KM44C256B	Hyundai	HY534256	
KM44C258	Fujitsu	MB81C4258	
	Hitachi	HM514258	
	Motorola	MCM514258	
		MCM514258A	
	NEC	µPD424258	
	OKI	MSM514258	
	Toshiba	TC514258	
KM44C258A	OKI	MSM514258A	
KM44C4000	MicronSemi	MT4C4M4X1	
	Motorola	MCM54400A	
	Toshiba	TC5117400	
KM44C4002	MicronSemi	MT4C4M4	
KM44C4100	MicronSemi	MT4C4M4	
	Toshiba	TC5116400	
KM44V16000	MicronSemi	MT4C4M4	
KM48C512	MicronSemi	MT4C8512	
KM611001	IDT	IDT71027	
	MicronSemi	MT5C1001	
	NEC	µPD431001	
KM61257	Cypress	CY7C197	
		CY7V197	
	Fujitsu	MB81C81	
	Hitachi	HM6207	
	IDT	IDT71257	
	LogicDev	L7C197	
	MicronSemi	MT5C2561	
	Motorola	MCM6207	
	Sony	CXK51256	
KM61257A	Cypress	CY7C197	
KM6165	MicronSemi	MT5C6401	
	Motorola	MCM6287	
	Toshiba	TC5561	
		TC5562	
KM62256	Cypress	CY7C198	
	Fujitsu	MB84256	
	Hitachi	HM62256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mitsubishi	M5M5265	
	Mosel-Vitelic	MS62256	
	NEC	µPD43256	
	Sharp	LH52250AL	
	Sony	CXK58257	
	Toshiba	TC55257	
KM62256A	Mosel-Vitelic	MS62256	
KM62256B	Hyundai	HY62256A	
KM6264	Cypress	CY7C185	
		CY7C186	
	Fujitsu	MB8464	
	Hitachi	HM6264	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mitsubishi	M5M5165	
	NEC	µPD4364	
	Sharp	LH5168	
	Sony	CXK5864	
	Toshiba	TC5563	
		TC5565	
KM6264A	Mosel-Vitelic	MS6264	
KM6264B	Hyundai	HY6264A	
KM6264L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**

Manufacturer Device	Replacement Source	Device	IC Master Page
KM64B258	Hitachi	HM6709	
	IDT	IDT61B298	
KM64B65	Cypress	CY7B164	
	Fujitsu	MB82B74	
	Hitachi	HM6788	
	IDT	IDT71B88	
	Motorola	MCM6288	
KM64B66	Fujitsu	MB82B75	
	Hitachi	HM6789	
	IDT	IDT61B98	
	Motorola	MCM6290	
KM64B67	Cypress	CY7B161	
KM641001	Fujitsu	MB82006	
	Hitachi	HM624256	
	IDT	IDT71028	
	MicronSemi	MT5C1005	
	NEC	µPD431004	
KM641005	Hitachi	HM624257	
	MicronSemi	MT5C1005	
KM64257	Cypress	CY7C194	
	Fujitsu	MB81C84	
	Hitachi	HM6208	
	IDT	IDT71258	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Motorola	MCM6208	
	Sharp	LH52252	
	Sony	CXK54256	
	Toshiba	TC55464	
KM64257A	Cypress	CY7C194	
KM64258	Cypress	CY7C196	
	Hitachi	HM6709	
	IDT	IDT61258	
	Toshiba	TC55465	
KM64259	Cypress	CY7C67082	
	Fujitsu	MB81C86	
	IDT	IDT71282	
KM64260	Cypress	CY7C67081	
	IDT	IDT71281	
KM644002	Fujitsu	MB82201	
KM6465	Cypress	CY7C164	
	Fujitsu	MB81C74	
	Hitachi	HM6288	
	IDT	IDT7188	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	Sony	SXK5464	
	Toshiba	TC55416	
KM6466	Cypress	CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6289	
	IDT	IDT189	
	Sony	CXK5465	
	Toshiba	TC55417	
KM658128	Hitachi	HM658128	
	Krueger	518128	
	Motorola	MCM518128	
	NEC	µPD428128	
	Toshiba	TC518128	
KM68B65	Motorola	MCM6264	
KM68100	Toshiba	TC551001	
◆ KM681000	Fujitsu	MB841000	
	Hitachi	HM628128	
	Mitsubishi	M5M51000	
	NEC	µPD431000	
	Sony	CXK581000	
	Toshiba	TC551001	
KM681000A	Hyundai	HY628100	
KM681001	IDT	IDT71024	
	MicronSemi	MT5C1008	
KM681002	Fujitsu	MB82008	
KM6816	Hyundai	HY6116A	
KM68257	Cypress	CY7C191	
	Fujitsu	MB8287	
	Hitachi	HM62832	
	IDT	IDT71256	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256A	
	Sharp	LH52258	
	Sony	CXK58258	
	Toshiba	TC55B328	
		TC55328	
KM684002	Fujitsu	MB82208	
KM6865	MicronSemi	MT5C6408	
	Toshiba	TC5588	
KM6866	Toshiba	TC55B88	
KM741006	Sony	CXK77410	
KM75C01	Cypress	CY7C420	
		CY7C421	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Quality Semi	QS7201	

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Manufacturer Device	Replacement Source	Device	IC Master Page
KM75C01			(Cont'd)
	Sharp	LH5496	
	TI	74ACT7201	
KM75C01A	Cypress	CY7C421A	
KM75C02	AMD	AM7202	
		AM7202A	
	Cypress	CY7C424	
		CY7C425	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Quality Semi	QS7202	
	Sharp	LH5497	
	TI	74ACT7202	
KM75C02A	Cypress	CY7C425	
		CY7C425A	
	IDT	IDT7202	
KM75C03	AMD	AM7203	
		AM7203A	
	Cypress	CY7C428	
		CY7C429	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	7203	
	Sharp	LH5498	
KM75C03A	Cypress	CY7C429A	
	IDT	IDT7203	
	Mosel-Vitelic	7203A	
	Quality Semi	QS7203	
KM75C04	Sharp	LH5499	
KM75C101	AMD	AM4601	
	MicronSemi	MT52C9007	
	Mosel-Vitelic	7201A	
KM75C102	Cypress	CY7C424	
		CY7C425	
	IDT	IDT72021	
	MicronSemi	MT52C9012	
	Mosel-Vitelic	7202A	
KM75C102A	Cypress	CY7C425	
KM75C103	IDT	IDT72031	
	MicronSemi	MT52C9022	
KM75C104	IDT	IDT72041	
	Sharp	LH5492	
KM78C80	Cypress	CY7C183	
		CY7C184	
	Hitachi	HM62A168	
	MicronSemi	MT56C0816	
	Sony	CXK7701	
	Toshiba	TC55186	
	Vitelic	V63C328	
KM93CS56	National	NMC93CS56	
KM93CS66	National	NMC93CS66	
KM93C06	EXEL	XL93C06	
	Microchip	93C06	
	National	NMC9306	
	SGS-Thomson	M9306	
KM93C07	Microchip	ER59256	
	National	NMC9307	
	Sierra	SC22002	
KM93C46	**Catalyst Semi**	**CAT93C46**	**(3565)**
	EXEL	XL93C46	
		XL93LC46	
	National	NMC9346	
	ROHM	BR93C46	
	SGS-Thomson	TS93C46	
	Sierra	SC22011	
KM93C56	National	NMC93C56	
KM93C57	**Catalyst Semi**	**CAT35C102**	**(3565)**
KM93C66	National	NMC93C66	
KM93C67	**Catalyst Semi**	**CAT35C104**	**(3565)**
KSV3208	Sony	CXA1096	
KS0061	Hitachi	HD44100	
	OKI	MSM5259	
	Sanyo	LC7930	
	Sharp	LH5006	
KS0062	Hitachi	HD44780	
	OKI	MSM6222	
	Seiko Instr	SED1210	
		SED1278	
	Sharp	LH5008	
KS0063	Hitachi	HD66100	
KS0081	Sharp	LH5021	
		LH5022	
KS0082	Hitachi	HD66840	
	Seiko Instr	SED1341	
KS0101	Hitachi	HD44103	
	OKI	MSM5298	
	Seiko Instr	SED1190	
		SED1191	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
KS0101			(Cont'd)
	Sharp	LH5030	
		LH5031	
KS0102	Hitachi	HD44102	
	OKI	MSM5299	
	Seiko Instr	SED1180	
		SED1181	
	Sharp	LH5025	
		LH5036	
		LH5826	
KS25C02	National	DM25C02	
KS25C03	National	DS25C03	
KS272	Harris	CA5260	
		ICL7621	
	TI	TLC272	
KS274	Harris	CA5470	
		ICL7641	
	TI	TLC274	
KS3502	Toshiba	TD6347	
KS5064	Seiko Instr	SED5600	
◆ KS5113	OKI	MSM5008	
	UMC	UM3210	
KS5164	Hitachi	S6561	
◆ KS5190	OKI	MSM5006	
	UMC	UM3217	
KS5195	OKI	MSM5004	
KS5199	OKI	MSM5001	
	UMC	UM3219	
◆ KS5206	OKI	MSM5093	
	UMC	UM3252	
◆ KS5243	OKI	MSM6002	
	UMC	UM3230	
KS5250	OKI	MSM6004	
KS53C80	AMD	AM5380	
	LogicDev	L53C80	
		L5380	
	NCR	5380	
KS5310	Seiko Instr	SVM7952	
◆ KS5313	Seiko Instr	SVM7920	
KS5318	Seiko Instr	SVM7910	
KS5319	Seiko Instr	SVM7860	
KS5357	Harris	ICM7555	
◆ KS5381	OKI	MSM5041	
KS5410	Toshiba	TC9012	
KS55C232	NEC	µPD1719	
KS5512	Mitsubishi	M50554	
KS555	TI	TLC555	
KS556	Harris	ICM7556	
	TI	TLC556	
KS56C460	Sanyo	LC652001	
KS56C820	Sony	CXP5024	
KS5788	National	DS14C88	
KS5789	TI	SN751701	
KS58C05	SGS-Thomson	MK50981	
	UMC	UM9151	
KS58D05	SGS-Thomson	MK50982	
KS58E05	SGS-Thomson	MK50991	
		MK50992	
	UMC	UM9151	
KS58000	Seiko Instr	S7230	
	SGS-Thomson	MK5370	
	Sharp	LR48081	
	UMC	UM91230	
KS58001	Seiko Instr	S7230	
	SGS-Thomson	MK5370	
	Sharp	LR48081	
	UMC	UM91230	
KS58002	Seiko Instr	S7230	
	SGS-Thomson	MK5370	
	Sharp	LR48081	
	UMC	UM91230	
KS58003	Seiko Instr	S7230	
	SGS-Thomson	MK5370	
	Sharp	LR48081	
	UMC	UM91230	
KS58004	Sanyo	LC7360	
	Seiko Instr	S7235	
	Sharp	LR48082	
	UMC	UM91210	
KS58005	Sanyo	LC7360	
	Seiko Instr	S7235	
	Sharp	LR48082	
	UMC	UM91210	
KS58006	Sanyo	LC7360	
	Seiko Instr	S7235	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Samsung Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
KS58006			(Cont'd)
	Sharp	LR48082	
	UMC	UM91210	
KS58007	Sanyo	LC7360	
	Seiko Instr	S7235	
	Sharp	LR48082	
	UMC	UM91210	
KS5803	NEC	μPC1913	
		μPD1943	
KS5805	American Micro	S2560	
	SGS-Thomson	MK50992	
		MK50993	
	Sharp	LR40992	
		LR40993	
	UMC	T40992	
		T40993	
KS5805A	American Micro	S2560	
KS5808	American Micro	S25089	
	SGS-Thomson	MK5089	
	Sharp	LR4089	
	UMC	UM95089	
KS5809	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM95087	
KS5810	SGS-Thomson	MK5380	
	UMC	UM9559	
KS5819	Seiko Instr	S7239	
	SGS-Thomson	MK5370	
	Sharp	LR48081	
	UMC	UM91230	
KS5820	Seiko Instr	S7235	
	Sharp	LR48082	
	UMC	UM91210	
KS5822	Ericsson	PCD3315	
	SGS-Thomson	MK5375	
		MK5376	
	Sharp	LR4803	
	UMC	UM91261	
KS5823	UMC	UM91260	
KS5824	Hitachi	HD6350	
	Motorola	MC6850	
KS58500	Ericsson	PCD3315	
	SGS-Thomson	MK5375	
		MK5376	
	Sharp	LR4803	
	UMC	UM91261	
KS58501	UMC	UM91260	
KS58502	UMC	UM91260	
KS58503	UMC	UM91260	
KS58504	UMC	UM91260	
KS5851	SGS-Thomson	MK50981	
	UMC	UM9151	
KS5852	SGS-Thomson	MK50982	
KS58528	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58529	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS5853	SGS-Thomson	MK50991	
		MK50992	
	UMC	UM9151	
KS58530	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
KS58531	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58532	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58533	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58534	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58535	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58536	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58537	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58538	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS58539	American Micro	S2559	
	Seiko Instr	S7241	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	UMC	UM91271	
KS5901	Toshiba	T6721	
♦ KS5902	Toshiba	LC8100	
		T6803	
♦ KS5911	Toshiba	T6668	
♦ KS5912	Toshiba	T6667	
KS5915	Toshiba	TC8831	
KS5917	Toshiba	T6668	
KS5990	Sanyo	LC7860	
	Sony	CXD1167	
KS5991	Sony	CXD1247	
KS6027	Toshiba	T6899	
♦ KS6028	Sharp	LI3136	
♦ KS6041	Toshiba	SC6992	
KS6125	Sharp	LI3135	
	UMC	UM3128	
KS6325	Sharp	LI3135	
	UMC	UM3128	
KS6326	Sharp	LI3140	
	UMC	UM3135	
KS706	Motorola	MC14506	
KS7100	OKI	MSM6964	
KS7104	Toshiba	TL8808	
KS7105	Toshiba	TL8809	
KS7106	OKI	MSM6989	
KS7107	OKI	MSM6834	
KS7126	Harris	ICL7126	
	TeledyneC	TSC7126	
KS7226	Toshiba	TC9224	
♦ KS74AHCT00	**Ideal Semi**	**74AHCT00**	**(3644)**
	National	74AC899	
♦ KS74AHCT01	**Ideal Semi**	**74AHCT01**	**(3644)**

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ KS74AHCT02	**Ideal Semi**	**74AHCT02**	**(3644)**
♦ KS74AHCT03	**Ideal Semi**	**74AHCT03**	**(3644)**
♦ KS74AHCT04	**Ideal Semi**	**74AHCT04**	**(3644)**
♦ KS74AHCT05	**Ideal Semi**	**74AHCT05**	**(3644)**
♦ KS74AHCT08	**Ideal Semi**	**74AHCT08**	**(3644)**
♦ KS74AHCT09	**Ideal Semi**	**74AHCT09**	**(3644)**
♦ KS74AHCT10	**Ideal Semi**	**74AHCT10**	**(3644)**
♦ KS74AHCT107	**Ideal Semi**	**74AHCT107**	**(3644)**
♦ KS74AHCT109	**Ideal Semi**	**74AHCT109**	**(3644)**
♦ KS74AHCT11	**Ideal Semi**	**74AHCT11**	**(3644)**
♦ KS74AHCT112	**Ideal Semi**	**74AHCT112**	**(3644)**
♦ KS74AHCT12	**Ideal Semi**	**74AHCT12**	**(3644)**
♦ KS74AHCT121	**Ideal Semi**	**74AHCT121**	**(3644)**
♦ KS74AHCT123	**Ideal Semi**	**74AHCT123**	**(3644)**
♦ KS74AHCT133	**Ideal Semi**	**74AHCT138**	**(3644)**
♦ KS74AHCT138	**Ideal Semi**	**74AHCT138**	**(3644)**
♦ KS74AHCT139	**Ideal Semi**	**74AHCT139**	**(3644)**
♦ KS74AHCT14	**Ideal Semi**	**74AHCT14**	**(3644)**
♦ KS74AHCT148	**Ideal Semi**	**74AHCT148**	**(3644)**
♦ KS74AHCT153	Samsung	KS74AHCT151	
♦ KS74AHCT154	**Ideal Semi**	**74AHCT155**	**(3644)**
♦ KS74AHCT155	**Ideal Semi**	**74AHCT155**	**(3644)**
♦ KS74AHCT157	**Ideal Semi**	**74AHCT157**	**(3644)**
♦ KS74AHCT158	**Ideal Semi**	**74AHCT158**	**(3644)**
♦ KS74AHCT160	**Ideal Semi**	**74AHCT161**	**(3644)**
♦ KS74AHCT161	**Ideal Semi**	**74AHCT161**	**(3644)**
♦ KS74AHCT162	**Ideal Semi**	**74AHCT163**	**(3644)**
	Samsung	KS74AHCT163	
KS74AHCT163	**Ideal Semi**	**74AHCT163**	**(3644)**
♦ KS74AHCT164	**Ideal Semi**	**74AHCT164**	**(3644)**
♦ KS74AHCT165	**Ideal Semi**	**74AHCT165**	**(3644)**
♦ KS74AHCT166	**Ideal Semi**	**74AHCT166**	**(3644)**
♦ KS74AHCT173	**Ideal Semi**	**74AHCT173**	**(3644)**
♦ KS74AHCT174	**Ideal Semi**	**74AHCT174**	**(3644)**
♦ KS74AHCT175	**Ideal Semi**	**74AHCT175**	**(3644)**
♦ KS74AHCT191	**Ideal Semi**	**74AHCT191**	**(3644)**
♦ KS74AHCT192	**Ideal Semi**	**74AHCT193**	**(3644)**
♦ KS74AHCT193	**Ideal Semi**	**74AHCT193**	**(3644)**
♦ KS74AHCT239	**Ideal Semi**	**74AHCT240**	**(3644)**
♦ KS74AHCT240	**Ideal Semi**	**74AHCT240**	**(3644)**
♦ KS74AHCT241	**Ideal Semi**	**74AHCT241**	**(3644)**
♦ KS74AHCT244	**Ideal Semi**	**74AHCT244**	**(3644)**
♦ KS74AHCT245	**Ideal Semi**	**74AHCT245**	**(3644)**
♦ KS74AHCT257	**Ideal Semi**	**74AHCT257**	**(3644)**
♦ KS74AHCT258	**Ideal Semi**	**74AHCT258**	**(3644)**
♦ KS74AHCT259	**Ideal Semi**	**74AHCT259**	**(3644)**
♦ KS74AHCT266	**Ideal Semi**	**74AHCT266**	**(3644)**
♦ KS74AHCT27	Ideal Semi	74AHCT273	
♦ KS74AHCT273	Ideal Semi	74AHCT273	
♦ KS74AHCT280	**Ideal Semi**	**74AHCT299**	**(3644)**
♦ KS74AHCT299	**Ideal Semi**	**74AHCT299**	**(3644)**
♦ KS74AHCT30	**Ideal Semi**	**74AHCT32**	**(3644)**
♦ KS74AHCT32	**Ideal Semi**	**74AHCT32**	**(3644)**
♦ KS74AHCT365	**IDT**	**74AHCT365**	**(3644)**
♦ KS74AHCT366	**Ideal Semi**	**74AHCT366**	**(3644)**

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ KS74AHCT368	**Ideal Semi**	**74AHCT367**	**(3644)**
		74AHCT368	**(3644)**
♦ KS74AHCT373	**Ideal Semi**	**74AHCT373**	**(3644)**
♦ KS74AHCT374	**Ideal Semi**	**74AHCT374**	**(3644)**
♦ KS74AHCT390	**Ideal Semi**	**74AHCT393**	**(3644)**
♦ KS74AHCT393	**Ideal Semi**	**74AHCT393**	**(3644)**
♦ KS74AHCT399	**Ideal Semi**	**74AHCT399**	**(3644)**
♦ KS74AHCT42	**Ideal Semi**	**74AHCT423**	**(3644)**
♦ KS74AHCT423	**Ideal Semi**	**74AHCT423**	**(3644)**
♦ KS74AHCT51	**Ideal Semi**	**74AHCT51**	**(3644)**
♦ KS74AHCT522	**Ideal Semi**	**74AHCT533**	**(3644)**
♦ KS74AHCT533	**Ideal Semi**	**74AHCT533**	**(3644)**
♦ KS74AHCT534	**Ideal Semi**	**74AHCT534**	**(3644)**
♦ KS74AHCT540	**Ideal Semi**	**74AHCT540**	**(3644)**
♦ KS74AHCT541	**Ideal Semi**	**74AHCT541**	**(3644)**
♦ KS74AHCT563	**Ideal Semi**	**74AHCT563**	**(3644)**
♦ KS74AHCT564	**Ideal Semi**	**74AHCT564**	**(3644)**
♦ KS74AHCT573	**Ideal Semi**	**74AHCT573**	**(3644)**
♦ KS74AHCT574	**Ideal Semi**	**74AHCT574**	**(3644)**
♦ KS74AHCT58	**Ideal Semi**	**74AHCT58**	**(3644)**
♦ KS74AHCT590	**Ideal Semi**	**74AHCT590**	**(3644)**
♦ KS74AHCT591	**Ideal Semi**	**74AHCT592**	**(3644)**
♦ KS74AHCT592	**Ideal Semi**	**74AHCT592**	**(3644)**
♦ KS74AHCT593	**Ideal Semi**	**74AHCT593**	**(3644)**
♦ KS74AHCT597	**Ideal Semi**	**74AHCT640**	**(3644)**
♦ KS74AHCT640	**Ideal Semi**	**74AHCT640**	**(3644)**
♦ KS74AHCT643	**Ideal Semi**	**74AHCT643**	**(3644)**
♦ KS74AHCT645	**Ideal Semi**	**74AHCT646**	**(3644)**
♦ KS74AHCT646	**Ideal Semi**	**74AHCT646**	**(3644)**
♦ KS74AHCT648	**Ideal Semi**	**74AHCT648**	**(3644)**
♦ KS74AHCT73	**Ideal Semi**	**74AHCT73**	**(3644)**
♦ KS74AHCT74	**Ideal Semi**	**74AHCT74**	**(3644)**
♦ KS74AHCT823	Samsung	KS74AHCT824	
♦ KS74AHCT86	**Ideal Semi**	**74AHCT86**	**(3644)**
♦ KS74HCTLS00	**Ideal Semi**	**74HCTLS00**	**(3643)**
KS74HCTLS01	**Ideal Semi**	**74HCTLS01**	**(3643)**
♦ KS74HCTLS02	**Ideal Semi**	**74HCTLS02**	**(3643)**
♦ KS74HCTLS03	**Ideal Semi**	**74HCTLS03**	**(3643)**
♦ KS74HCTLS04	**Ideal Semi**	**74HCTLS04**	**(3643)**
♦ KS74HCTLS05	**Ideal Semi**	**74HCTLS05**	**(3643)**
♦ KS74HCTLS08	**Ideal Semi**	**74HCTLS08**	**(3643)**
♦ KS74HCTLS09	**Ideal Semi**	**74HCTLS09**	**(3643)**
♦ KS74HCTLS10	**Ideal Semi**	**74HCTLS10**	**(3643)**
♦ KS74HCTLS107	**Ideal Semi**	**74HCTLS107A**	**(3643)**
♦ KS74HCTLS107A	**Ideal Semi**	**74HCTLS107A**	**(3643)**
♦ KS74HCTLS109	**Ideal Semi**	**74HCTLS109**	**(3643)**
♦ KS74HCTLS109A	**Ideal Semi**	**74HCTLS109**	**(3643)**
♦ KS74HCTLS11	**Ideal Semi**	**74HCTLS11**	**(3643)**
♦ KS74HCTLS112	**Ideal Semi**	**74HCTLS112A**	**(3643)**

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Samsung Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ KS74HCTLS112A	**Ideal Semi**	**74HCTLS112A**	(3643)
◆ KS74HCTLS12	**Ideal Semi**	**74HCTLS12**	(3643)
◆ KS74HCTLS121	**Ideal Semi**	**74HCTLS121**	(3643)
◆ KS74HCTLS123	**Ideal Semi**	**74HCTLS123**	(3643)
◆ KS74HCTLS138	Ideal Semi	74HCTLS138	
◆ KS74HCTLS139	**Ideal Semi**	**74HCTLS139**	(3643)
◆ KS74HCTLS14	**Ideal Semi**	**74HCTLS14**	(3643)
◆ KS74HCTLS148	**Ideal Semi**	**74HCTLS148**	(3643)
◆ KS74HCTLS154	**Ideal Semi**	**74HCTLS155**	(3643)
◆ KS74HCTLS155	**Ideal Semi**	**74HCTLS155**	(3643)
◆ KS74HCTLS157	**Ideal Semi**	**74HCTLS157**	(3643)
◆ KS74HCTLS158	**Ideal Semi**	**74HCTLS158**	(3643)
◆ KS74HCTLS160	**Ideal Semi**	**74HCTLS161A**	(3643)
◆ KS74HCTLS161	**Ideal Semi**	**74HCTLS161A**	(3643)
◆ KS74HCTLS161A	**Ideal Semi**	**74HCTLS161A**	(3643)
◆ KS74HCTLS163	**Ideal Semi**	**74HCTLS163A**	(3643)
◆ KS74HCTLS163A	**Ideal Semi**	**74HCTLS163A**	(3643)
◆ KS74HCTLS164	**Ideal Semi**	**74HCTLS164**	(3643)
◆ KS74HCTLS165	**Ideal Semi**	**74HCTLS165**	(3643)
◆ KS74HCTLS166	**Ideal Semi**	**74HCTLS166**	(3643)
◆ KS74HCTLS169	**Ideal Semi**	**74HCTLS173**	(3643)
◆ KS74HCTLS173	**Ideal Semi**	**74HCTLS173**	(3643)
◆ KS74HCTLS174	**Ideal Semi**	**74HCTLS174**	(3643)
◆ KS74HCTLS175	**Ideal Semi**	**74HCTLS175**	(3643)
◆ KS74HCTLS191	**Ideal Semi**	**74HCTLS191**	(3643)
◆ KS74HCTLS192	**Ideal Semi**	**74HCTLS193**	(3643)
◆ KS74HCTLS193	**Ideal Semi**	**74HCTLS193**	(3643)
◆ KS74HCTLS239	**Ideal Semi**	**74HCTLS240**	(3643)
◆ KS74HCTLS240	**Ideal Semi**	**74HCTLS240**	(3643)
◆ KS74HCTLS241	**Ideal Semi**	**74HCTLS241**	(3643)
◆ KS74HCTLS244	**Ideal Semi**	**74HCTLS244**	(3643)
◆ KS74HCTLS245	**Ideal Semi**	**74HCTLS245**	(3643)
◆ KS74HCTLS257	**Ideal Semi**	**74HCTLS257**	(3643)
◆ KS74HCTLS258	**Ideal Semi**	**74HCTLS258**	(3643)
◆ KS74HCTLS259	**Ideal Semi**	**74HCTLS259**	(3643)
◆ KS74HCTLS266	**Ideal Semi**	**74HCTLS266**	(3643)
◆ KS74HCTLS27	**Ideal Semi**	**74HCTLS273**	(3643)
◆ KS74HCTLS273	**Ideal Semi**	**74HCTLS273**	(3643)
◆ KS74HCTLS280	**Ideal Semi**	**74HCTLS299**	(3643)
◆ KS74HCTLS299	**Ideal Semi**	**74HCTLS299**	(3643)
◆ KS74HCTLS30	**Ideal Semi**	**74HCTLS32**	(3643)
◆ KS74HCTLS32	**Ideal Semi**	**74HCTLS32**	(3643)
◆ KS74HCTLS365	**Ideal Semi**	**74HCTLS365A**	(3643)
◆ KS74HCTLS365A	**Ideal Semi**	**74HCTLS365A**	(3643)
◆ KS74HCTLS366	**Ideal Semi**	**74HCTLS366A**	(3643)
◆ KS74HCTLS366A	**Ideal Semi**	**74HCTLS366A**	(3643)
◆ KS74HCTLS367	**Ideal Semi**	**74HCTLS367A**	(3643)
◆ KS74HCTLS367A	**Ideal Semi**	**74HCTLS367A**	(3643)
◆ KS74HCTLS368	**Ideal Semi**	**74HCTLS368A**	(3643)
◆ KS74HCTLS368A	**Ideal Semi**	**74HCTLS368A**	(3643)
◆ KS74HCTLS373	**Ideal Semi**	**74HCTLS373**	(3643)
◆ KS74HCTLS374	**Ideal Semi**	**74HCTLS374**	(3643)
◆ KS74HCTLS393	**Ideal Semi**	**74HCTLS393**	(3643)
◆ KS74HCTLS399	**Ideal Semi**	**74HCTLS399**	(3643)
◆ KS74HCTLS51	**Ideal Semi**	**74HCTLS51**	(3643)
◆ KS74HCTLS522	**Ideal Semi**	**74HCTLS533**	(3643)
	Samsung	KS74HCTLS533	
KS74HCTLS533	**Ideal Semi**	**74HCTLS533**	(3643)
◆ KS74HCTLS534	**Ideal Semi**	**74HCTLS534**	(3643)
◆ KS74HCTLS540	**Ideal Semi**	**74HCTLS540**	(3643)
◆ KS74HCTLS541	**Ideal Semi**	**74HCTLS541**	(3643)
KS74HCTLS563	**Ideal Semi**	**74HCTLS563**	(3643)
◆ KS74HCTLS564	**Ideal Semi**	**74HCTLS564**	(3643)
◆ KS74HCTLS573	**Ideal Semi**	**74HCTLS573**	(3643)
◆ KS74HCTLS574	**Ideal Semi**	**74HCTLS574**	(3643)
◆ KS74HCTLS58	**Ideal Semi**	**74HCTLS58**	(3643)
◆ KS74HCTLS590	**Ideal Semi**	**74HCTLS590**	(3643)
◆ KS74HCTLS591	**Ideal Semi**	**74HCTLS592**	(3643)
◆ KS74HCTLS592	**Ideal Semi**	**74HCTLS592**	(3643)
◆ KS74HCTLS593	**Ideal Semi**	**74HCTLS593**	(3643)
◆ KS74HCTLS597	**Ideal Semi**	**74HCTLS640**	(3643)
◆ KS74HCTLS640	**Ideal Semi**	**74HCTLS640**	(3643)
◆ KS74HCTLS643	**Ideal Semi**	**74HCTLS643**	(3643)
◆ KS74HCTLS645	**Ideal Semi**	**74HCTLS646**	(3643)
◆ KS74HCTLS646	**Ideal Semi**	**74HCTLS646**	(3643)
◆ KS74HCTLS648	**Ideal Semi**	**74HCTLS648**	(3643)
◆ KS74HCTLS73	**Ideal Semi**	**74HCTLS73A**	(3643)
◆ KS74HCTLS73A	**Ideal Semi**	**74HCTLS73A**	(3643)
◆ KS74HCTLS74	**Ideal Semi**	**74HCTLS74A**	(3643)
◆ KS74HCTLS74A	**Ideal Semi**	**74HCTLS74A**	(3643)
◆ KS74HCTLS75A	**Ideal Semi**	**74HCTLS76A**	(3643)
◆ KS74HCTLS76	**Ideal Semi**	**74HCTLS76A**	(3643)
◆ KS74HCTLS76A	**Ideal Semi**	**74HCTLS76A**	(3643)
◆ KS74HCTLS77	**Ideal Semi**	**74HCTLS78A**	(3643)
◆ KS74HCTLS78A	**Ideal Semi**	**74HCTLS78A**	(3643)
◆ KS74HCTLS86	**Ideal Semi**	**74HCTLS86**	(3643)
KS82C37	AMD	D8237	
	Harris	82C37	
		8237	
	Intel	82C37	
	Mitsubishi	82C37	
	NEC	82C37	
	OKI	M82C37	
	UMC	UM8237	
KS82C37A	Newbridge	CA82C37A	
KS82C411	TI	TMS77211	
	UMC	UM82C11	
KS82C452	Chips&Tech	82C605	
	VLSI Tech	VL16C452	
	Western	WD16C452	
KS82C50	UMC	UM8250	
KS82C52	Newbridge	CA82C52	
KS82C54	AMD	D82C54	
	Harris	82C54	
	Intel	82C54	
	Mitsubishi	82C54	
	NEC	82C54	
	Newbridge	CA82C54	
	OKI	M82C54	
	UMC	UM8254	
KS82C55	AMD	D8255	
	Harris	82C55	
	Intel	82C55	
		8255	
	Mitsubishi	82C55	
	NEC	82C55	
	OKI	M82C55	
	UMC	UM8255	
KS82C55A	Newbridge	CA82C55A	
KS82C59	AMD	D8259	
	Harris	82C59	
	Intel	82C59	
	Mitsubishi	82C59	
KS82C59			(Cont'd)
	NEC	82C59	
	OKI	M82C59	
	UMC	UM8259	
KS82C59A	Newbridge	CA82C59A	
KS82C84	AMD	D8284	
	Harris	82C84	
	Intel	82C84	
	NEC	82C84	
	OKI	M82C84	
	UMC	UM82C84	
KS82C84A	Newbridge	CA82C84A	
KS82C88	AMD	D8288	
	Harris	82C88	
	Intel	82C88	
		8288	
	NEC	82C88	
	Newbridge	CA82C88	
	OKI	M82C88	
	UMC	UM82C88	
KT3170	GEC Plessey	MV8870	
	Teltone	M8870	
LM224A	National	LM224A	
LM239	Motorola	LM239	
	National	LM239	
LM248	National	LM248	
LM258	Motorola	LM258	
LM258A	National	LM258A	
LM2901	Harris	CA3290	
	Motorola	LM2901	
	National	LM2901	
LM2902	Motorola	LM2902	
	National	LM2902	
LM2903	Harris	CA3290	
	Motorola	LM2903	
	National	LM2903	
LM2904	Motorola	LM2904	
	National	LM2904	
LM293	Harris	CA3290	
	Motorola	LM293	
	National	LM293	
LM301	Motorola	LM301	
LM311	Motorola	LM311	
	National	LM311	
LM317	Motorola	LM317	
	National	µA317	
	NEC	LM317	
	Unitrode	UC317	
LM323	Motorola	LM323	
◆ LM323	Motorola	LM323	
LM324	Motorola	LM324	
	National	LM324	
	Philips	LM324	
		LM324A	
◆ LM324	Motorola	LM324	
	National	µA324	
		LM324	
◆ LM324	NJR	NJM324	
	Toshiba	TA75324	
LM324A	National	LM324A	
LM3302	Harris	CA3290	
		LM3302	
	Motorola	MC3302	
	National	LM3302	
LM339A	National	LM339A	
LM348	Motorola	LM348	
	National	LM348	
LM358	Motorola	LM358	
LM358A	National	LM358A	
LM386	GoldStar	GL386	
LM393	Harris	CA3290	
	Motorola	LM393	
	National	LM393	
LM393A	National	LM393A	
LM723	Motorola	MC1723	
LM741	Motorola	MC1741	
	National	LM741	
	Philips	µA741	
		µA741C	
MC1458	Motorola	MC1458	
	National	µA1458	
		LM1458	
	NJR	NJM1458	
	Philips	MC1458	
◆ MC1488	Motorola	MC1488	
	National	µA1488	
		DS1488	
◆ MC1488	Philips	MC1488	
	TI	SN75188	
◆ MC1489	Motorola	MC1489	
	National	µA1489	
	Philips	MC1489	
	TI	SN75189	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Samsung Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
MC3303	Harris	CA5470	
MC3361	Philips	MC3361	
MC3403	Harris	CA5470	
MC4558	Motorola	MC4558	
	National	µA4558	
	NJR	**NJM4558**	**(3704)**
	ROHM	BA4558	
MC78L05	National	LM78L05	
	TI	µA78L05	
MC78L08	Motorola	MC78L08	
	TI	µA78L08	
MC78L12	Motorola	MC78L12	
	National	µA78L12	
		LM78L12	
	TI	µA78L12	
MC78L15	Motorola	MC78L15	
	National	µA78L15	
		LM78L15	
	TI	µA78L15	
MC78L62	National	LM78L62	
MC78M05	National	LM78M05	
	TI	µA78M05	
MC78M06	National	LM78M06	
	TI	µA78M06	
MC78M08	National	LM78M08	
	TI	µA78M08	
MC78M10	TI	µA78M10	
MC78M12	National	LM78M12	
	TI	µA78M12	
MC78M15	National	LM78M15	
	TI	µA78M15	
MC78M20	TI	µA78M20	
MC78M24	National	LM78M24	
	TI	µA78M24	
MC7805	Motorola	MC7805	
	National	µA7805	
		LM7805	
	NEC	µPC7805	
	Panasonic	AN7805	
	TI	µA7805	
MC7806	National	LM7806	
	TI	µA7806	
MC7808	Motorola	MC7808	
	National	µA7808	
		LM7808	
	NEC	µPC7808	
	Panasonic	AN7808	
	TI	µA7808	
MC7810	TI	µA7810	
MC7812	Motorola	MC7812	
	National	µA7812	
		LM7812	
	NEC	µPC7812	
	Panasonic	AN7812	
	TI	µA7812	
MC7815	Motorola	MC7815	
	National	µA7815	
		LM7815	
	NEC	µPC7815	
	Panasonic	AN7815	
	TI	µA7815	
MC7818	National	LM7818	
	TI	µA7818	
MC7824	Motorola	MC7824	
	National	µA7824	
		LM7824	
	NEC	µPC7824	
	Panasonic	AN7824	
	TI	µA7824	
MC7885	National	µA7885	
MC79L05	Motorola	MC79L05	
	National	LM79L05	
	TI	MC79L05	
MC79L12	National	LM79L12	
	TI	MC79L12	
MC79L15	National	LM79L15	
	TI	MC79L15	
MC79M05	National	LM79M05	
	TI	µA79M05	
MC79M06	TI	µA79M06	
MC79M08	National	LM79M08	
	TI	µA79M08	
MC79M12	National	LM79M12	
	TI	µA79M12	
MC79M15	National	LM79M15	
	TI	µA79M15	
MC7905	Motorola	MC7905	
	National	µA7905	
		LM7905	
MC7905			(Cont'd)
	NEC	µPC7905	
	Panasonic	AN7905	
	TI	µA7905	
MC7906	TI	µA7906	
MC7908	Motorola	MC7908	
	National	µA7908	
		LM7908	
	Panasonic	AN7908	
	TI	µA7908	
MC7912	Motorola	MC7912	
	National	µA7912	
		LM7912	
	NEC	µPC7912	
	Panasonic	AN7912	
	TI	µA7912	
MC7915	Motorola	MC7915	
	National	µA7915	
		LM7915	
	NEC	µPC7915	
	Panasonic	AN7915	
	TI	µA7915	
MC7918	TI	µA7918	
MK5089	GEC Plessey	MV5089	
MN41464	**Krueger**	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
NE555	Motorola	MC1455	
	National	LM555	
	Philips	NE555	
	TI	TA75555	
NE556	Harris	ICM7556	
	Motorola	NE556	
	National	LM556	
	Philips	NE556	
	TI	NE555	
NE558	Philips	NE558	
SKA431	Astec Semi	A431	

Sanyo

Manufacturer Device	Replacement Source	Device	IC Master Page
KS5120	OKI	MSM5001	
	UMC	UM3219	
LA1635	GoldStar	GL3201A	
LA6082	NJR	NJM082	
LA6324	NJR	NJM2902	
		NJM324	
LA6339	NJR	NJM2901	
LA6393	NJR	NJM2903	
LA6458	**NJR**	**NJM4558**	**(3704)**
LA6462	NJR	NJM2043	
LA6538	**NJR**	**NJM2904**	**(3704)**
LA7016	GoldStar	GL3816	
LA7520	GoldStar	GL3120	
	Unitrode	PIC7520	
LA7530	Unitrode	PIC7530	
LA7620	Waferscale	WS57C64	
LA7850	GoldStar	GL1150	
LA7851	GoldStar	GL1151	
LA7911	GoldStar	GL3711	
LB1231	Allegro Micro	ULN2001	
LB1233	Allegro Micro	ULN2003	
LB1234	Allegro Micro	ULN2004	
LC3364L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
LC3517	**Krueger**	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
LC652001	Samsung	KS56C460	
LC7350	UMC	UM9151	
LC7360	Samsung	KS58004	
		KS58005	
		KS58006	
		KS58007	
	Sharp	UM91210	
LC7365	UMC	UM95088	
LC7366	UMC	UM95089	
LC7860	Samsung	KS5990	
LC7930	Samsung	KS0061	
LM33256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
LM3364	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**

SEEQ Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
DE20RA10	AMD	PALCE20RA10	
DE28C64	EXEL	XL28C64	
DE2816	EXEL	XL2816	
DE2864	EXEL	XL2865	
DE52B13	EXEL	XL28C16	
DE52B33	EXEL	XL2864	
DM20RA10	AMD	PALCE20RA10	
	Cypress	PLDC20RA10	
	National	PAL20RA10	
DM27C256	Microchip	27C256	
	TI	SMJ27C256	
DM27C256-20MP	TI	SMJ27C256-20	
DM27128	Microchip	27C128	
DM27128-20MP	TI	SMJ27C128-20	
DM27128-25MP	TI	SMJ27C128-25	
DM27256	TI	SMJ27C256	
DM27256-20MP	TI	SMJ27C256-20	
DM27641	Microchip	27C64	
DM28C04	Microchip	28C04	
DM28C64	EXEL	XL28C64	
DM28C641	Microchip	28C64	
DM2864	EXEL	XL2865	
DM52B13	EXEL	XL28C16	
DQ20RA10	AMD	PALCE20RA10	
	Cypress	PLDC20RA10	
	National	PAL20RA10	
DQ26V12	AMD	PALCE26V12	
DQ27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
DQ27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
DQ2764	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
DQ28C256	Samsung	KM28C256	
DQ28C64	EXEL	XL28C64	
	Samsung	KM28C64	
DQ28C65	Samsung	KM28C65	
DQ2816	EXEL	XL2816	
	Samsung	KM28C16	
DQ2817	Samsung	KM28C17	
DQ2864	EXEL	XL2865	
	Samsung	KM28C65	
DQ5133	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
DQ5143	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
DQ52B13	EXEL	XL28C16	
DQ52B33	EXEL	XL2864	
DQ5516	Samsung	KM28C16	
DQ5517	Samsung	KM28C17	
DQ8023	Crystal	CS8023	
LM20RA10	Cypress	PLDC20RA10	
M28C010	ATMEL	AT28MC010	
	Dense-Pac	DPE51288	
	Xicor	XM28C010	
NE20RA10	AMD	PALCE20RA10	
NQ20RA10	AMD	PALCE20RA10	
	Cypress	PLDC20RA10	
	National	PAL20RA10	
NQ26V12	AMD	PALCE26V12	
NQ28C64	EXEL	XL28C64	
NQ2864	EXEL	XL2865	
NQ8005	Crystal	CS8005	
PE20RA10	AMD	PALCE20RA10	
PQ20RA10	AMD	PALCE20RA10	
	Cypress	PLDC20RA10	
	National	PAL20RA10	
PQ26V12	AMD	PALCE26V12	
PQ28C64	EXEL	XL28C64	
PQ2804	EXEL	XL2804	
PQ2816	EXEL	XL2816	
PQ2864	EXEL	XL2865	
PQ52B13	EXEL	XL28C16	
PQ52B33	EXEL	XL2864	
PQ83C92	Crystal	CS83C92	
27C256	ATMEL	AT27C256	
	Fujitsu	MBM27C256	
	Harris	CMD27C256	
	Hitachi	HN27C256	
	Intel	MD27C256	
	National	NMC27C256	
	NEC	µPD27C256	
	OKI	MSM27C256	
	SGS-Thomson	TS27C256	
	TI	TMS27C256	
		TMS27PC256	
	VLSI Tech	VM27C256	
	Waferscale	WS27C256	
		WS57C256	
27128	AMD	AM27128	
	Fujitsu	MBM27128	
	Hitachi	HN27128	
	Intel	MD27128	
	NEC	µPD27128	
	OKI	MSM27128	
	TI	SMJ27C128	
		TMS27C128	
		TMS27PC128	
	Toshiba	TMM27128	
27256	Waferscale	WS57C256	
2764	AMD	AM2764	
	Fujitsu	MBM2764	
	Hyundai	HY2764	
	Intel	MD2764	
	NEC	µPD2764	
	SGS-Thomson	M2764	
	TI	TMS2764	
	Toshiba	TMM2764	
	Waferscale	WS57C64	
28C010	TI	TMS29F010	
	Xicor	X28C010	
28C256	ATMEL	AT28C256	
	Microchip	28C256	
	NEC	µPD28C256	
	OKI	MSM28C256	
	Xicor	X28C256	
		X28256	
28C64	AMD	2864	
	ATMEL	AT28C64	
		AT28HC64	
		AT28PC64	
	Fujitsu	MBM28C64	
	Microchip	28CP64	
	NEC	µPD28C64	
	OKI	MSM28C64	
	Xicor	X2864	
28C65	ATMEL	AT28C64	
	EXEL	2865	
	Fujitsu	MBM28C65	
	Microchip	28C64	
28HC256	ATMEL	AT28HC256	
2804	EXEL	2804	
	NEC	µPD28C04	
	Xicor	X2804	
2816	Catalyst Semi	CAT28C16	
	EXEL	2816	
	OKI	MSM28C16	
	Ramtron	FM1408S	
	Xicor	X2816	
2817	AMD	2817	
	Catalyst Semi	CAT28C17	
	Intel	2817	
2864	AMD	2864	
	Catalyst Semi	CAT28C64	
	EXEL	2864	
	Fujitsu	MBM28C64	
2865	Catalyst Semi	CAT28C65	
36C16	ATMEL	AT28HC191	
		AT28HC291	
	Cypress	CY7291	
		CY7292	
		CY8C291	
	Microchip	28C191	
		28C291	
		28HC16	
	TI	TMS27C191	
		TMS27C291	
36C32	Waferscale	WS57C43	
36S16	Waferscale	WS57C291	
38C16	ATMEL	AT28HC16	
39C16	Waferscale	WS57C191	
47F010	OKI	MSM28F101	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

SEEQ Technology (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
48F010	Intel	D28F010	
	National	MC48F010	
48F512	Intel	D28F512	
	National	MC48F512	
52B13	Intel	2816	
52B33	Intel	2864	
55C65	ATMEL	AT28C64	
82005	AMD	82005	
	Intel	82005	
82025	AMD	82025	
	Intel	82025	

Seiko Instruments

Manufacturer Device	Replacement Source	Device	IC Master Page
SC17660	**NJR**	**NJU7660**	**(3705)**
SED1180	Samsung	KS0102	
SED1181	**NJR**	**NJU6417B**	**(3705)**
	Samsung	KS0102	
SED1190	Samsung	KS0101	
SED1191	Samsung	KS0101	
SED1210	**NJR**	**NJU6408**	**(3705)**
	Samsung	KS0062	
SED1278	**NJR**	**NJU6408**	**(3705)**
	Samsung	KS0062	
SED1341	Samsung	KS0082	
SED1521	NJR	NJU6416	
SED1681	NJR	NJU6416	
SED5600	Samsung	KS5064	
SVM7860	Samsung	KS5319	
SVM7910	Samsung	KS5318	
SVM7952	Samsung	KS5310	
S7230	Samsung	KS58000	
		KS58001	
		KS58002	
		KS58003	
S7235	Samsung	KS58004	
		KS58005	
		KS58006	
		KS58007	
		KS5820	
S7239	Samsung	KS5819	
S7241	Samsung	KS58528	
		KS58529	
		KS58530	
		KS58531	
		KS58532	
		KS58533	
		KS58534	
		KS58535	
		KS58536	
		KS58537	
		KS58538	
		KS58539	
S80250	NJR	NJU7211	
S812	Signal Proc	SPT116	
S81215	NJR	NJU7201	
S81225	NJR	NJU7201	
S81230	NJR	NJU7201	
S81235	NJR	NJU7201	
S81240	NJR	NJU7201	
S813	Signal Proc	SPT116	

SemTech

Manufacturer Device	Replacement Source	Device	IC Master Page
LAS1000	Linfinity Micro	SG3532	
LAS1100	Linfinity Micro	SG2532	
LAS14A05	Motorola	LM323AK	
		MC78T05ACK	
LAS14A12	Motorola	MC78T12ACK	
LAS1405	Linfinity Micro	SG323	
	Motorola	LM323K	
		MC78T05	
	National	LM323	
LAS1412	Motorola	MC78T12	
LAS1415	Motorola	MC78T15	
LAS15A05	Motorola	LM340AK-5.0	
		MC7805ACK	
LAS15A12	Motorola	LM340AK-12	
		MC7812ACK	
LAS15A15	Motorola	LM340AK-15	
		MC78T15ACK	
		MC7815ACK	
LAS1505	Linfinity Micro	SG309	
		SG340	
		SG7805	
	Motorola	LM340K-5.0	
		MC7805	
		MC7805CK	
	National	µA309	
		µA7805	
		LM309	
		LM340	
		LM7805	
	Unitrode	UC340	
		UC7805	
LAS1506	Linfinity Micro	SG340	
		SG7806	
	Motorola	MC7806	
		MC7806CK	
	National	µA7806	
		LAS1506	
		LM340	
LAS1508	Linfinity Micro	SG340	
		SG7808	
	Motorola	LM340K-8.0	
		MC7808	
		MC7808CK	
	National	µA7808	
		LM340	
LAS1512	Linfinity Micro	SG340	
		SG7812	
	Motorola	LM340K-12	
		MC7812CK	
	National	µA7812	
		LM340	
		LM7812	
	Unitrode	UC340	
		UC7812	
LAS1515	Linfinity Micro	SG340	
		SG7815	
	Motorola	LM340K-15	
		MC7815CK	
	National	µA7815	
		LM340	
		LM7815	
	Unitrode	UC340	
		UC7815	
LAS1518	Linfinity Micro	SG340	
		SG7818	
	Motorola	MC7818CK	
	National	µA7818	
		LM340	
LAS1524	Linfinity Micro	SG340	
		SG7824	
	Motorola	MC7824CK	
	National	µA7824	
		LM340	
LAS1605	National	L78S05CT	
	SGS-Thomson	L78S05	
LAS1612	National	L78S12CT	
	SGS-Thomson	L78S12	
LAS1615	National	L78S15CT	
	SGS-Thomson	L78S15	
LAS18A05	Motorola	MC7905ACK	
LAS18A12	Motorola	MC7912ACK	
LAS18A15	Motorola	MC7915ACK	
LAS1802	Motorola	MC7902	
	National	µA7902	
LAS1805	Linfinity Micro	SG320	
		SG7905	
	Motorola	MC7905CK	
	National	µA7905	
		LM320	
		LM7905	
LAS1806	Motorola	MC7906CK	
	National	µA7906	
LAS1808	Linfinity Micro	SG320	
		SG7908	
	Motorola	MC7908CK	
	National	µA7908	
LAS1812	Linfinity Micro	SG320	
		SG7912	
	Motorola	MC7912CK	
	National	µA7912	
		LM320	
		LM7912	
LAS1815	Linfinity Micro	SG320	
		SG7915	
	Motorola	MC7915CK	
	National	µA7915	
		LM320	
		LM7915	
LAS1818	Motorola	MC7918CK	
	National	µA7918	
		LM320	
LAS1824	Motorola	MC7924CK	
	National	µA7924	
		LM320	
LAS1905	LinearTech	LT1003	
	National	µA78H05	
LAS1912	National	µA78H12	
LAS3905	National	µA78P05	
LLM117	Linfinity Micro	SG117K	
	Motorola	LLM117K	
	National	LM117K	
LLM138	Linfinity Micro	SG138K	
	National	LM138K	
LLM150	Linfinity Micro	SG150K	
	Motorola	LM150K	
	National	LM150K	
	Unitrode	UC150	
LLM309K	Motorola	LM309K	
LLM317	Linfinity Micro	SG317	
	Motorola	LM317K	
	National	LM317	
	Unitrode	UC317	
LLM323	Linfinity Micro	SG323	
	National	LM323	
LLM323AK	Motorola	LM323AK	
LLM323K	Linfinity Micro	SG323K	
	Motorola	LM323K	
	National	LM323K	
LLM338	National	LM338	
LLM340AK-12	Motorola	LM340AK-12	
LLM340AK-15	Motorola	LM340AK-15	
LLM340AK-5	Motorola	LM340AK-5.0	
LLM340K-12	Motorola	LM340K-12	
LLM340K-15	Motorola	LM340K-15	
LLM340K-5	Motorola	LM340K-5.0	
LLM340K-8	Motorola	LM340K-8.0	
LLM350	Motorola	LM350K	
	National	LM350	
LLM350K	Linfinity Micro	SG350K	
LM1575K-ADJ	National	LM1575K-ADJ	
LM1575K-12	National	LM1575K-12	
LM1575K-15	National	LM1575K-15	
LM1575K-5	National	LM1575K-5.0	
LM1576K-ADJ	National	LM1576K-ADJ	
LM1576K-12	National	LM1576K-12	
LM1576K-15	National	LM1576K-15	
LM1576K-5	National	LM1576K-5.0	
◆ LM2575K-ADJ	National	LM2575K-ADJ	
◆ LM2575K-12	National	LM2575K-12	
◆ LM2575K-15	National	LM2575K-15	
LM2575K-5	National	LM2575K-5.0	
◆ LM2575K-5.0	National	LM2575K-5.0	
LM2575T-ADJ	National	LM2575T-ADJ	
LM2575T-12	National	LM2575T-12	
LM2575T-15	National	LM2575T-15	
LM2575T-5	National	LM2575T-5.0	
LM2576T-ADJ	National	LM2576T-ADJ	
LM2576T-12	National	LM2576T-12	
LM2576T-15	National	LM2576T-15	
LM2576T-5	National	LM2576T-5.0	
MC78T05ACK	Motorola	MC78T05ACK	
MC78T12ACK	Motorola	MC78T12ACK	
MC78T15ACK	Motorola	MC78T15ACK	
MC7805ACK	Motorola	MC7805ACK	
MC7805CK	Motorola	MC7805CK	
MC7806CK	Motorola	MC7806CK	
MC7808CK	Motorola	MC7808CK	
MC7812ACK	Motorola	MC7812ACK	
MC7812CK	Motorola	MC7812CK	
MC7815ACK	Motorola	MC7815ACK	
MC7815CK	Motorola	MC7815CK	
MC7818CK	Motorola	MC7818CK	
MC7824CK	Motorola	MC7824CK	
MC790ACK	Motorola	MC7905ACK	
MC7905.2CK	Motorola	MC7905.2CK	
MC7905CK	Motorola	MC7905CK	
MC7906	Motorola	MC7906CK	
MC7908	Motorola	MC7908CK	
MC7912	Motorola	MC7912ACK	
MC7915	Motorola	MC7915ACK	
MC7918	Motorola	MC7918CK	
MC7924	Motorola	MC7924CK	

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Manufacturer Device	Replacement Source	Device	IC Master Page
µA741	Harris	CA741	
	Motorola	MC1741	
	National	µA741	
		LM741	
	Philips	µA741	
		SA741	
	Siemens	TBA222	
		TBB741	
	TI	µA741	
	Toshiba	TA7504	
µA748	Harris	CA748	
	Motorola	MC1748	
	National	µA748	
		LM748	
	TI	µA748	
µA776	Motorola	MC1776	
	National	µA776	
	Toshiba	TA7540	
µA778	Motorola	MC1776	
µA78M08	National	LM78M08	
µA7805	National	LM7805	
	TI	µA7805	
µA7806	Motorola	MC7808	
	National	LM7806	
	TI	µA7806	
µA7812	National	LM140	
		LM7812	
µA7815	National	LM140	
		LM7815	
µA7905	Motorola	MC7905	
	National	LM120	
		LM7905	
	TI	µA7905	
µA7912	Motorola	MC7912	
	TI	µA7912	
µA7915	Motorola	MC7915	
	National	LM120	
		LM7912	
	TI	µA7915	
AM6012	AMD	AM6012	
CA3046	GEC Plessey	SL3046	
DAC0806	Motorola	MC1408	
	National	DAC0806	
DAC0807	Motorola	MC1408	
	National	DAC0807	
DAC0808	Motorola	MC1508	
	National	DAC0808	
EFB7189	GEC Plessey	MV5087	
EF6800	Krueger	6800	
EF6809	Krueger	6809	
EF6809E	Krueger	6809E	
EF7910	AMD	AM7910	
EF8408	GEC Plessey	MV95308	
ETC2114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
ETC5054	Harris	CD22354	
ETC9310	National	COP310	
ETC9311	National	COP311	
ETC9320	National	COP324	
ETC9321	National	COP325	
ETC9344	National	COP344	
ETC9345	National	COP345	
ETC9410	National	COP410	
ETC9411	National	COP411	
ETC9420	National	COP424	
ETC9421	National	COP425	
ETC9444	National	COP444	
ETC9445	National	COP445	
ETL9310	National	COP310	
ETL9311	National	COP311	
ETL9313	National	COP313	
ETL9320	National	COP320	
ETL9321	National	COP321	
ETL9322	National	COP322	
ETL9344	National	COP344	
ETL9345	National	COP345	
ETL9410	National	COP410	
ETL9411	National	COP411	
ETL9413	National	COP413	
ETL9420	National	COP420	
ETL9421	National	COP421	
ETL9422	National	COP422	
ETL9444	National	COP444	
ETL9445	National	COP445	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ET2114	**Krueger**	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
ET2147	**Krueger**	**2147-35**	**(3663)**
		2147-45	**(3663)**
		2147-55	**(3663)**
		2147-70	**(3663)**
ET2148	**Krueger**	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
ET2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
ET9320	National	COP320	
ET9321	National	COP321	
ET9322	National	COP322	
ET9420	National	COP420	
ET9421	National	COP421	
ET9422	National	COP422	
GAL16V8	AMD	PALCE16V8	
	ICT	PEEL18CV8	
	Lattice	GAL16V8	
GAL20V8	AMD	PALCE20V8	
	ICT	PEEL20CG10	
	Lattice	GAL20V8	
GAL39V18	Lattice	GAL6001	
GA1000D	American Micro	GA1000D	
GA2000D	American Micro	GA2000D	
GA3000D	American Micro	GA3000D	
GA4000D	American Micro	GA4000D	
G176	ATMEL	AT76C176	
HCC4016	Unitrode	PIC7516	
HCC4066	Unitrode	PIC7516	
HCF4016	Unitrode	PIC7516	
HCF4066	Unitrode	PIC7516	
IMSG171	UMC	UM70C171	
IMSZ1420	Motorola	MCM1423	
IMS1203	Cypress	CY7C147	
	Performance	P4C147	
IMS1223	AMD	AM2148	
		AM2149	
	Cypress	CY2148	
		CY2149	
		CY7C148	
	Harris	HM65748	
	Hitachi	HM6148	
	Krueger	21C14-150	
		21C14-200	
		21C14-450	
	Performance	P4C148	
IMS1400	AMD	AM2167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
IMS1403	AMD	AM2167	
	Cypress	CY7C167	
	Fujitsu	BM81C67	
	Harris	HM65261	
		HM65767	
	Hitachi	HM6167	
		HM6267	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
	Mitsubishi	M5M21C67	
	Sharp	LH5167	
	Vitelic	V61C67	
IMS1420	AMD	AM2168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	Motorola	MCM6168	
	Performance	P4C168	
IMS1421	AMD	AM2169	
	LogicDev	L7C168	
	Motorola	MCM6269	
	Performance	P4C169	
IMS1423	AMD	AM2168	
		AM99C68	
	Fujitsu	MB81C68	
	Harris	HM65768	
	Hitachi	HM6168	
	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M21C68	
	Motorola	MCM6268	
	Vitelic	V61C68	
	VLSI Tech	VT20C50	
		VT20C68	
		VT20C69	
IMS1433	LogicDev	L6116	
	Performance	P4C116	
IMS1600	Cypress	CY7C187	
	Fujitsu	MB81C71	
	Harris	HM65787	
	Hyundai	HY62C87	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	Performance	P4C187	
	Toshiba	TC5561	
		TC5562	
IMS1601	LogicDev	L7C187	
	Motorola	MCM6287	
	Performance	P4C187	
IMS1605	Motorola	MCM6287	
	Toshiba	TC5561	
		TC5562	
IMS1620	Cypress	CY7C164	
	Fujitsu	MB81C74	
	Hyundai	HY62C88	
	IDT	IDT7188	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Mitsubishi	M5M5188	
	Motorola	MCM6288	
	Performance	P4C188	
	Toshiba	TC55416	
	VLSI Tech	VT62K54	
IMS1624	Cypress	CY7C166	
	Fujitsu	MB81C75	
	IDT	IDT7198	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Motorola	MCM6290	
	Performance	P4C198	
	Toshiba	TC55417	
IMS1625	Motorola	MCM6288	
	Toshiba	TC55416	
IMS1629	Motorola	MCM6290	
	Toshiba	TC55417	
IMS1630	Cypress	CY7C185	
	Harris	HM65764	
	IDT	IDT7164	
	LogicDev	L7C185	
	Mitsubishi	M5M5165	
		M5M5178	
	Motorola	MCM6164	
	Performance	P4C164	
	Sharp	LH5168	
	Toshiba	TC5588	
IMS1630L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
IMS1630P-70	Krueger	6264-070	
IMS1635	Motorola	MCM6264	
	Toshiba	TC5588	
IMS1695	Motorola	MCM6265	
	Toshiba	TC5589	
IMS1800	Cypress	CY7C197	
	LogicDev	L7C197	
	Motorola	MCM6207	
	Performance	P4C1257	
IMS1820	Cypress	CY7194	
	LogicDev	L7C194	
	Motorola	MCM6208	
	Sharp	LH52252	
	Toshiba	TC55464	
IMS1824	Motorola	MCM6209	
	Toshiba	TC55465	
IMS1830	LogicDev	L7C199	
	NEC	μPD43256	
IMS1835	Toshiba	TC55328	
IMS2600	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
IMS2620	Krueger	41416-100	
		41416-120	
		41416-150	
◆ IMS2620	Rochester	4416	
JBP38S165	Waferscale	WS57C191	
		WS57C291	
LF157	Harris	CA3130	
LF198	National	LF198	
LF255	National	LF255	
LF256	National	LF256	
LF257	National	LF257	
LF298	National	LF298	
LF347	Motorola	LF347	
	National	LF347	
LF351	Harris	CA3140	
	Motorola	LF351	
		MC34001	
	National	LF351	
LF353	Harris	CA3240	
	Motorola	LF353	
		MC34002	
	National	LF353	
LF355	Motorola	LF355	
	National	LF355	
LF355A	National	LF355A	
LF356	Motorola	LF356	
	National	LF356	
	NEC	μPC356	
LF356A	National	LF356A	
LF357	Harris	CA3130	
	Motorola	LF357	
	National	LF357	
	NEC	μPC357	
LF357A	National	LF357A	
LF398	National	LF398	
LMC555	Harris	ICM7555	
LM101	Motorola	LM101	
	National	LM101	
LM101A	National	LM101A	
LM105	National	LM105	
LM109	National	LM109	
LM111	Motorola	LM111	
	Philips	LM111	
LM117	National	μA117	
		LM117	
LM118	Motorola	MC1741	
LM119	National	LM119	
	Philips	LM119	
LM123	Linfinity Micro	SG123	
	National	LM123	
LM124	Harris	CA124	
	Motorola	LM124	
	National	μA124	
		LM124	
	Philips	LM124	
	TI	LM124	
LM124A	National	LM124A	
LM124J7B/C	TI	LM124JB	
LM134	National	LM134	
LM135	National	LM135	
LM137	National	LM137	
LM138	National	LM138	
LM139	Harris	CA139	
	Motorola	LM139	
	National	μA139	
		LM139	
	Philips	LM139	
		LM1398	
	TI	LM139	
LM139A	National	LM139A	
LM139AJ7B/C	TI	LM139AJB	
LM1397J7B/C	TI	LM139JB	
LM146	National	LM146	
LM148	Motorola	LM148	
	National	μA148	
		LM148	
	TI	LM148	
LM148J7B/C	TI	LM148JB	
LM158	Harris	CA158	
	Motorola	LM158	
	National	LM158	
	Philips	LM158	
		SE532	
	TI	LM158	
LM158A	National	LM158A	
LM158J7B/C	TI	LM158JGB	
LM1837	National	LM1837	
LM193	Harris	CA3290	
	Motorola	LM193	
	National	LM193	
	Philips	LM193	
	TI	LM193	
LM193A	National	LM193A	
LM201	Motorola	LM201	
	National	μA201	
		LM201	
	NEC	μPC157	
	TI	LM201	
LM201A	National	LM201A	
LM208	Motorola	MC78L08	
	National	LM208	
	NEC	μPC156	
LM211	Motorola	LM211	
	National	LM211	
	NEC	μPC271	
	Philips	LM211	
	TI	LM211	
LM217	Linfinity Micro	SG217	
	Unitrode	UC217	
LM218	Motorola	MC1741	
	National	LM218	
LM219	National	LM219	
	NEC	μPC272	
	Philips	LM219	
LM223	Linfinity Micro	SG223	
	Motorola	LM223	
	National	LM223	
LM224	Harris	CA224	
	Motorola	LM224	
	National	μA224	
		LM224	
	NEC	μPC451	
	Philips	LM224	
	TI	LM224	
LM224A	National	LM224A	
LM234	National	LM234	
LM235	National	LM235	
LM236	GEC Plessey	REF25	
	National	LM236	
LM237	Motorola	LM237	
	National	LM237	
LM238	National	LM238	
LM239	Harris	CA239	
	Motorola	LM239	
	National	μA239	
		LM239	
	Philips	LM239	
	TI	LM239	
LM239A	National	LM239A	
LM246	National	LM246	
LM248	National	LM249	
	TI	LM248	
LM258	Harris	CA258	
	Motorola	LM258	
	National	LM258	
	Philips	LM258	
		SA532	
	TI	LM258	
LM2901	Harris	CA2901	
		CA3290	
	Motorola	LM2901	
	National	μA2901	
		LM2901	
	Philips	LM2901	
	TI	LM2901	
	Toshiba	TA75339	
LM2902	Harris	CA2902	
	Motorola	LM2902	
	National	μA2902	
		LM2902	
	Philips	SA534	
	TI	LM2902	
	Toshiba	TA75902	

(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
LM2903	Harris	CA3290	
	Motorola	LM2903	
	National	LM2903	
		LM3903	
	Philips	LM2903	
	TI	LM2903	
	Toshiba	TA75393	
LM2904	Motorola	LM2904	
	National	LM2904	
	Philips	SA532	
	TI	LM2904	
	Toshiba	TA75358	
LM291	Motorola	LM2901	
LM293	Harris	CA3290	
	Motorola	LM293	
	National	LM293	
	Philips	LM293	
	TI	LM293	
LM2930	National	LM2930	
LM2931	National	LM2931	
LM2931A	National	LM2931A	
LM2935	Motorola	LM2935	
	National	LM2935	
LM301	Harris	CA301	
	Motorola	LM301	
	National	μA301	
		LM301	
	NEC	μPC301	
	TI	LM301	
	Toshiba	TA7506	
LM301A	National	LM301A	
LM3045	Harris	CA3045	
	Motorola	MC3446	
LM3046	GEC Plessey	SL3046	
	Harris	**CA3046**	**(3637)**
	Motorola	MC3446	
LM305	National	LM305	
LM308	National	μA308	
		LM308	
LM308A	National	LM308A	
LM309	National	LM309	
LM311	Harris	CA311	
	Motorola	LM311	
	National	μA311	
		LM311	
	NEC	μPC311	
	Philips	LM311	
	TI	LM311	
LM317	Linfinity Micro	SG317	
	Motorola	LM317	
	National	LM317	
	Unitrode	UC317	
LM318	Motorola	MC1741	
	National	LM318	
	NEC	μPC159	
	TI	LM318	
LM319	National	LM319	
	NEC	μPC319	
	Philips	LM319	
LM323	Linfinity Micro	SG323	
	Motorola	LM323	
	National	LM323	
LM324	Harris	CA324	
	Linfinity Micro	SG324	
	Motorola	LM324	
	National	μA324	
		LM324	
	NEC	μPC324	
	Philips	LM324	
		LM324A	
	TI	LM324	
LM324A	National	LM324A	
LM331	National	μA311	
LM334	National	LM334	
LM335	National	LM335	
LM336	GEC Plessey	REF25	
	National	LM336	
LM337	Motorola	LM337	
	National	LM337	
	TI	LM337	
	Unitrode	UC337	
LM338	National	LM338	
LM339	Harris	CA339	
	Motorola	LM339	
	National	μA339	
		LM339	
LM339			(Cont'd)
	NEC	μPC339	
	Philips	LM339	
	TI	LM339	
LM339A	National	LM339A	
LM346	National	LM346	
LM348	Motorola	LM348	
	National	μA348	
		LM348	
	NEC	μPC4741	
	TI	LM348	
LM358	Harris	CA358	
	Motorola	LM358	
	National	LM358	
	NEC	μPC358	
	Philips	LM358	
		NE532	
	TI	LM358	
	Toshiba	TA75358	
LM358A	National	LM358A	
LM393	Harris	CA3290	
	Motorola	LM393	
	National	LM393	
	NEC	μPC393	
	Philips	LM393	
		LM393A	
	TI	LM393	
LM393A	National	LM393A	
LM555	Motorola	MC1455	
LM556	Harris	ICM7556	
	Motorola	MC3456	
LM723	Linfinity Micro	SG723	
	Motorola	MC1723	
	National	LM723	
	Philips	μA723	
	TI	μA723	
LM741	Linfinity Micro	SG741	
	Motorola	MC1741	
	Philips	μA741	
		μA741C	
LM748	Motorola	MC1748	
	National	LM748	
LM7805	National	LM140	
LS101	Linfinity Micro	SG101	
LS141	AnalogSys	MA332	
		MA333	
		MA362	
LS148	AnalogSys	MA332	
		MA333	
		MA362	
LS204	AnalogSys	MA336	
		MA372	
	Harris	HA5102	
	Linfinity Micro	SG204	
LS301	AnalogSys	MA332	
		MA333	
		MA362	
LS307	AnalogSys	MA332	
		MA333	
		MA362	
LS404	AnalogSys	MA374	
	Harris	HA5104	
LS776	Harris	CA3440	
L123	National	LM723	
L144	Motorola	LM324	
L165	Allegro Micro	ULN3751	
	Apex	**PA26**	**(3545)**
	Cherry Semi	CS365	
	Linfinity Micro	SG3173	
L201	Allegro Micro	ULN2001	
	Linfinity Micro	SG2021	
	Motorola	MC1411	
L202	Linfinity Micro	SG2022	
	Motorola	MC1412	
L203	Allegro Micro	ULN2003	
	Linfinity Micro	SG2023	
	Motorola	MC1413	
L204	Allegro Micro	ULN2004	
L272	Linfinity Micro	SG2024	
L2722	Linfinity Micro	SG3272	
L2726	Linfinity Micro	SG3272	
L293	Allegro Micro	UDN2993	
	National	LM18293	
L293D	Cherry Semi	CS293D	
L295	Allegro Micro	UDN2962	
	LinearTech	L295	
L296	Unitrode	L296	
L298	Allegro Micro	UDN2998	
	Cherry Semi	CS298	
L3000	GEC Plessey	SL7950	
		SL9753	
L3030	GEC Plessey	SL7950	
		SL9753	
L3845	**Micrel**	**MIC38C45**	**(3685)**
		MIC38HC45	
L4940	National	LM2940	
L4941	National	LM2940	
L4960	National	LM2579	
L4962	National	LM2579	
L583	Motorola	MC3484	
L601	SGS-Thomson	SG2821	
L602	Linfinity Micro	SG2822	
L603	Allegro Micro	ULN2823	
	Linfinity Micro	SG2823	
L604	Linfinity Micro	SG2824	
L6220	Allegro Micro	UDN2544	
L6221	Allegro Micro	UDN2540	
	Harris	**CA3262**	**(3638)**
L6222	**Harris**	**CA3262**	**(3638)**
L78M05	Motorola	MC78M05	
	National	μA78M05	
		LM78M05	
	TI	μA78M05	
L78M06	Motorola	MC78M06	
	National	μA78M06	
		LM78M06	
	TI	μA78M06	
L78M08	Motorola	MC78M08	
	National	μA78M08	
	TI	μA78M08	
L78M12	Motorola	MC78M12	
	National	μA78M12	
		LM78M12	
	TI	μA78M12	
L78M15	Motorola	MC78M15	
	National	μA78M15	
		LM78M15	
	TI	μA78M15	
L78M18	Motorola	MC78M18	
L78M20	TI	μA78M20	
L78M24	Motorola	MC78M24	
	National	μA78M24	
	TI	μA78M24	
L78S05	National	LM323	
	SemTech	LAS1605	
L78S12	SemTech	LAS1612	
L78S15	SemTech	LAS1615	
L7805	Linfinity Micro	SG7805	
	Motorola	MC7805	
	National	μA7805	
		LM7805	
	TI	μA7805	
L7806	Linfinity Micro	SG7806	
	Motorola	MC7806	
	National	μA7806	
		LM7806	
	TI	μA7806	
L7808	Linfinity Micro	SG7808	
	Motorola	MC7808	
	National	μA7808	
		LM7808	
	TI	μA7808	
L7812	Linfinity Micro	SG7812	
	Motorola	MC7812	
	National	μA7812	
		LM7812	
	TI	μA7812	
L7815	Linfinity Micro	SG7815	
	Motorola	MC7815	
	National	μA7815	
		LM7815	
	TI	μA7815	
L7818	National	μA7818	
		LM7818	
	TI	μA7818	
L7820	Linfinity Micro	SG7820	
L7824	Linfinity Micro	SG7824	
	Motorola	MC7824	
	National	μA7824	
		LM7824	
	TI	μA7824	
L7905	Linfinity Micro	SG7905	
	Motorola	MC7905	
	National	μA7905	
		LM7905	
	TI	μA7905	
L7908	Linfinity Micro	SG7908	
	Motorola	MC7908	
	National	μA7908	
	TI	μA7908	
L7912	Linfinity Micro	SG7912	
	Motorola	MC7912	
	National	μA7912	
		LM7912	
	TI	μA7912	
L7915	Linfinity Micro	SG7915	
	Motorola	MC7915	
	National	μA7915	
		LM7915	
	TI	μA7915	
L7918	Linfinity Micro	SG7918	
	Motorola	MC7918	
	TI	μA7918	
L7920	Linfinity Micro	SG7920	
L7924	Motorola	MC7924	
	TI	μA7924	
L7952	Motorola	MC7952	
	TI	μA7952	
MC1458	Harris	CA1458	
	Motorola	MC1458	
	National	μA1458	
		LM1458	
	NEC	μPC1458	
		μPC251	
	Philips	MC1458	
		SA1458	
	TI	MC1458	
	Toshiba	TA75458	
MC1488	Motorola	MC1488	
	National	μA1488	
		DS1488	
	Philips	MC1488	
	Raytheon	RC1488	
	TI	SN75188	
MC1489	Motorola	MC1489	
	National	μA1489	
		DS1489	
	Philips	MC1489	
	Raytheon	RC1489	
	TI	SN75189	
MC1558	Motorola	MC1558	
	National	μA1558	
	NEC	μPC1558	
	Philips	MC1558	
	TI	MC1558	
MC1776	Harris	ICL7611	
MC3302	Harris	CA3290	
	Motorola	MC3302	
	National	μA3302	
		LM3302	
	Philips	MC3302	
	TI	LM3302	
MC3303	Motorola	MC3303	
	National	μA3303	
		LM3303	
	NEC	μPC452	
	Philips	MC3303	
	TI	MC3303	
MC34001	Harris	CA3140	
	Motorola	MC34001	
MC34002	Harris	CA3240	
	Motorola	MC34002	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
MC34004	Motorola	MC34004	
MC3403	Harris	CA5470	
	Motorola	MC3403	
	National	µA3403	
		LM3403	
	NEC	µPC3403	
	Philips	MC3403	
	TI	MC3403	
MC3503	Motorola	MC3503	
	National	µA3503	
		LM3503	
	Philips	MC3503	
	TI	MC3503	
MC4558	Motorola	MC4558	
	NEC	µPC4558	
	Philips	NE4558	
		SA4558	
	TI	RC4558	
		RV4558	
	Toshiba	TA75558	
MH41H66	Motorola	MCM1423	
MKDART	**Krueger**	**Z80DART**	**(3663)**
MK2500	Hughes	H1831	
		H1832	
MK2600	Hughes	H1831	
		H1832	
MK2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
MK2764	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
MK36000	Hughes	H23C64	
		H23C65	
MK37000	Hughes	H23C64	
		H23C65	
MK386	Hughes	H1852	
MK3880	Krueger	Z80CPU	
MK3881	Krueger	Z80PIO	
MK3882	**Krueger**	**Z80CTC**	**(3663)**
MK3883	**Krueger**	**Z80DMA**	**(3663)**
MK3885	Krueger	Z80SIO/1	
MK3887	Krueger	Z80SIO/0	
		Z80SIO/2	
MK41C68	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
MK41H65	AT&T	ATT7C185	
MK41H66	IDT	IDT6167	
MK41H67	AT&T	ATT7C167	
	Cypress	CY7C167	
	Fujitsu	MB81C67	
	Hyundai	HY61C67	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	MicronSemi	MT5C1601	
MK41H68	AMD	AM2168	
		AM99C68	
	AT&T	ATT7C168	
	Cypress	CY7C168	
	Fujitsu	MB81C68	
	Harris	HM65768	
	Hyundai	HY61C68	
	IDT	IDT6168	
	LogicDev	L7C168	
	MicronSemi	MT5C1604	
	Mitsubishi	M5M21C68	
	Motorola	MCM6168	
		MCM6268	
	Vitelic	V62C68	
	VLSI Tech	VT20C50	
		VT20C68	
		VT20C69	
MK41H69	Cypress	CY7C169	
	IDT	IDT6168	
	Motorola	MCM6269	
MK41H78	IDT	IDT61970	
	LogicDev	L7C170	
MK41H79	IDT	IDT61970	
MK41H80	AT&T	ATT7C180	
	IDT	IDT6178	
	LogicDev	L7C180	
	Motorola	MCM4180	
		MK41H80	
MK41H87	AT&T	ATT7C187	
	IDT	IDT7187	
MK41L67	Cypress	CY7C167	
MK41S80	IDT	IDT6178	
	Motorola	MCM4180	
MK4116	Krueger	4116-120	
		4116-150	
		4116-200	
MK45H01	AMD	AM67C4501	
	Cypress	CYC412	
	Dallas	DS2009	
	IDT	IDT7201	
	Sharp	LH5496	
MK45H02	AMD	AM67C4502	
	Cypress	CY7C424	
	Dallas	DS2010	
	IDT	UDT7202	
MK45H03	AMD	AM67C4503	
	Cypress	CYC429	
	Dallas	DS2011	
	IDT	MK4503	
	Sharp	LH5498	
MK45H04	Dallas	DS2012	
	IDT	IDT7204	
MK45H08	IDT	IDT7105	
MK4501	AMD	AM67C4501	
	Cypress	CYC412	
	Dallas	DS2009	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Quality Semi	QS7201	
MK4502	MicronSemi	MT52C9010	
MK4503	AMD	AM67C4503	
	Cypress	CYC429	
	Dallas	DS2011	
	IDT	IDT7203	
		MK4503	
	MicronSemi	MT52C9020	
	Quality Semi	QS7203	
MK4516	Krueger	4116S	
MK4564	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
MK48C02	Krueger	48C02	
MK48H64	AMD	AM99C88	
	Fujitsu	MB81C78	
	Hitachi	HM6264	
	Hyundai	HY6264	
		HY6264A	
	Mitsubishi	M5M5165	
	Motorola	MCM6064	
	Toshiba	TC5563	
	Vitelic	V62C64	
MK48H65	IDT	IDT7164	
	Mosel-Vitelic	MS6264	
MK48H74	IDT	IDT7174	
	LogicDev	L7C174	
	Mosel-Vitelic	MS6264	
MK48H89	AMD	AM99C89	
MK48H98	Motorola	MCM6264	
MK48S80	AT&T	ATT7C173	
		ATT7C174	
MK48T02	Mosel-Vitelic	MS6516	
MK48T08	Dallas	DS1243	
MK48T85	Benchmarq	BQ3285	
	Dallas	DS1285	
MK48T87	Benchmarq	BQ3287	
	Dallas	DS1287	
MK48T87A	Dallas	DS1287A	
MK48Z02	Dallas	DS1210	
	Ramtron	FM1408S	
MK48Z08	Benchmarq	BQ4010	
	Dallas	DS1225	
	Ramtron	FM1608S	
MK48Z18	Benchmarq	BQ4010	
	Dallas	DS1225	
MK48Z30	Dallas	DS1230	
		DS1235	
	NEC	µPD43256	
	Toshiba	TC55257	
MK4801	Krueger	4801	
MK4802	AMD	AM9122	
	Krueger	**2128-100**	**(3663)**
		2128-120	**(3663)**
MK48128	Toshiba	TC551001	
MK48256	Sharp	LH52250AL	
MK4832	Harris	HM20256	
	Hyundai	HY62256	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	Toshiba	TC55257	
	Vitelic	V62C256	
MK5087	Samsung	KS5809	
		KS58528	
		KS58529	
		KS58530	
		KS58531	
		KS58532	
		KS58533	
		KS58534	
		KS58535	
		KS58536	
		KS58537	
		KS58538	
		KS58539	
	UMC	UM95087	
MK5089	Samsung	KS5808	
	UMC	UM95089	
MK5092	UMC	UM95088	
MK5094	UMC	UM95088	
MK50981	Samsung	KS58C05	
		KS5851	
	UMC	UM9151	
MK50982	Samsung	KS58D05	
		KS5852	
	UMC	UM9151	
MK50991	Samsung	KS58E05	
		KS5853	
MK50992	American Micro	S2560	
	Samsung	KS58E05	
		KS5805	
		KS5853	
	UMC	UM9151	
MK50993	Samsung	KS5805	
	UMC	UM9151	
MK5173	UMC	UM91611	
MK5175	UMC	UM91261	
		UM91611	
MK5370	Samsung	KS58000	
		KS58001	
		KS58002	
		KS58003	
		KS5819	
MK5375	Samsung	KS5822	
		KS58500	
MK5376	Samsung	KS5822	
		KS58500	
MK5380	Samsung	KS5810	
	UMC	UM91261	
		UM95088	
MK6116	AMD	AM9216	
	Harris	HM6116	
	Hyundai	HY6116	
		HY6116A	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Mosel-Vitelic	V62C16	
	Sharp	LH5116	
MK62486	Motorola	MCM62486	
		MCM62486A	
MK6264	Sharp	LH5168	
MK62940	Motorola	MCM62940	
		MCM62940A	
MK62960	Motorola	MCM62960	
MK6800	Krueger	6800	
MK68211	Krueger	68211	
MK68590	AMD	AM7990	
MK68592	AMD	AM7992	
	Krueger	68592	
MK7990	AMD	AM7990	
MK7992	AMD	AM7992	
MS45H02	Sharp	LH5497	
MS5087	GEC Plessey	MV5087	
MS5089	GEC Plessey	MV5089	
M093	Harris	CD22M3493	
M2532F1	**Krueger**	**2532-350**	**(3663)**
		2532-450	**(3663)**
M2560	American Micro	S2560	
M27C1001	AMD	AM27C010	
M27C1011	TI	TMS27C010A	
		TMS27PC010A	
M27C1024	AMD	AM27C1024	
	Krueger	27C210	
	TI	TMS27C210A	
		TMS27PC210A	
M27C2001	AMD	AM27C020	
M27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
M27C4001	AMD	AM27C040	
M27C4002	AMD	AM27C4096	
M27C512	AMD	AM27C512	
M27128	AMD	AM27C128	
	Krueger	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
M2716	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
M27256	**Krueger**	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
M27256A	TI	TMS27C256	
		TMS27PC256	
M2732A	**Krueger**	**2732A-250**	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
M27512	**Krueger**	**27512-200**	**(3663)**
		27512-250	**(3663)**
M2764	**Krueger**	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	SEEQ	2764	
M2764A	**Krueger**	**2764A-200**	**(3663)**
		2764A-300	**(3663)**
		2764A-450	**(3663)**
M2816	Catalyst Semi	CAT28C16	
M3493	Harris	CD22M3493	
M3494	Harris	CD22M3494	
M48Z128	Benchmarq	BQ4024	
M48Z256	Benchmarq	BQ4014	
		BQ4025	
M48Z512	Benchmarq	BQ4015	
M5450	Micrel	MM5450	
M5451	Micrel	MM5451	
M74HCT04	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	Philips	74HCT04	
	Toshiba	**TC74HCT04A**	**(3836)**
M74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
M74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	TI	SN74HCT138	
	Toshiba	**TC74HCT138A**	**(3836)**
M74HCT157	GoldStar	GD74HCT157	
	Harris	CD74HCT157	
	Motorola	MC74HCT157A	
	National	MM74HCT157	
	Philips	74HCT157	
	Toshiba	**TC74HCT157A**	**(3836)**
M74HCT158	GoldStar	GD74HCT158	
	Harris	CD74HCT158	
	Motorola	MC74HCT158A	
	National	MM74HCT158	
	Philips	74HCT158	
	Toshiba	**TC74HCT158A**	**(3836)**
M74HCT164	Harris	CD74HCT164	
	National	MM74HCT164	
	Philips	74HCT164	
	Toshiba	**TC74HCT164A**	**(3836)**
M74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	TI	SN74HCT240	
	Toshiba	TC74HCT240A	
M74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
M74HCT241			(Cont'd)
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241 M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	TI	SN74HCT241	
	Toshiba	**TC74HCT241A**	**(3836)**
M74HCT244	GEC Plessey	MV74HCT244 74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244 M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	TI	SN74HCT244	
	Toshiba	**TC74HCT244A**	**(3836)**
M74HCT245	GEC Plessey	MV74HCT245 74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	TI	SN74HCT245	
	Toshiba	**TC74HCT245A**	**(3836)**
M74HCT257	GoldStar	GD74HCT257	
	Harris	CD74HCT257	
	National	MM74HCT257	
	Philips	74HCT257	
	Toshiba	**TC74HCT257A**	**(3836)**
M74HCT258	Harris	CD74HCT258	
	National	MM74HCT258	
	Philips	74HCT258	
	Toshiba	**TC74HCT258A**	**(3836)**
M74HCT373	GEC Plessey	MV74HCT373 74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	TI	SN74HCT373	
	Toshiba	**TC74HCT373A**	**(3836)**
M74HCT374	GEC Plessey	MV74HCT374 74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	TI	SN74HCT374	
	Toshiba	**TC74HCT374A**	**(3836)**
M74HCT533	GEC Plessey	MV74HCT533 74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	TI	SN74HCT533	
	Toshiba	**TC74HCT533A**	**(3836)**
M74HCT534	GEC Plessey	MV74HCT534 74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	TI	SN74HCT534	
	Toshiba	**TC74HCT534A**	**(3836)**
M74HCT540	GEC Plessey	MV74HCT540 74HCT540	
			(Continued)
M74HCT540			(Cont'd)
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	TI	SN74HCT540	
	Toshiba	**TC74HCT540A**	**(3836)**
M74HCT541	GEC Plessey	MV74HCT541 74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	TI	SN74HCT541	
	Toshiba	**TC74HCT541A**	**(3836)**
M74HCT563	GEC Plessey	MV74HCT563 74HCT563	
	Harris	CD74HCT563	
	Philips	74HCT563	
	TI	SN74HCT563	
	Toshiba	**TC74HCT563A**	**(3836)**
M74HCT564	GEC Plessey	MV74HCT564 74HCT564	
	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	TI	SN74HCT564	
	Toshiba	**TC74HCT564A**	**(3836)**
M74HCT573	GEC Plessey	MV74HCT573 74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	TI	SN74HCT573	
	Toshiba	TC74HCT573A	
M74HCT574	GEC Plessey	MV74HCT574 74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	TI	SN74HCT574	
	Toshiba	**TC74HCT574A**	**(3836)**
M74HCT640	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
	Universal	US74HCT640	
M74HCT643	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	Philips	74HCT643	
	TI	SN74HCT643	
	Toshiba	TC74HCT643A	
M74HCT646	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
M74HCT648	GoldStar	GD74HCT648	
	Harris	CD74HCT648	
	Philips	74HCT648	
	TI	SN74HCT648	
	Toshiba	**TC74HCT648A**	**(3836)**
M74HCT651	Harris	CD74HCT651	
	TI	SN74HCT651	
	Toshiba	**TC74HCT651A**	**(3836)**
M74HCT652	Harris	CD74HCT652	
	TI	SN74HCT652	
	Toshiba	**TC74HCT652A**	**(3836)**
M74HCT688	Harris	CD74HCT688	
	National	MM74HCT688	
	Philips	74HCT688	
	Toshiba	**TC74HCT688A**	**(3836)**
M74HCT7007	**Toshiba**	**TC74HCT7007A**	**(3836)**
M74HCT74	GoldStar	GD74HCT74	
	Harris	CD74HCT74	
	Motorola	MC74HCT74A	
			(Continued)
M74HCT74			(Cont'd)
	National	MM74HCT74	
	Philips	74HCT74	
	TI	SN74HCT74	
	Toshiba	**TC74HCT74A**	**(3836)**
M74HCT86	GoldStar	GD74HCT86	
	Harris	CD74HCT86	
	Philips	74HCT86	
	Toshiba	**TC74HCT86A**	**(3836)**
M74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
M74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
M74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
M74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
M74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
M74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
M74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
M74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
M74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
M74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
M74HC113	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	National	MM74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	**(3836)**
M74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123 MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123A	
			(Continued)
M74HC123			(Cont'd)
	Toshiba	TC74HC123 TC74HC123A	
M74HC123A	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123 MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123	
	Toshiba	TC74HC123 TC74HC123A	
M74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	TI	SN74HC125	
	Toshiba	**TC74HC125A**	**(3836)**
M74HC126	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
	TI	SN74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
M74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A** **TC74HC132A**	**(3836)** **(3836)**
M74HC133	Motorola	MC74HC133	
	National	MM74HC133	
	TI	SN74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
M74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
M74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
M74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
M74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
M74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
M74HC148	GoldStar	GD74HC148	
	National	MM74HC148	
	TI	SN74HC148	
	Toshiba	**TC74HC148A**	**(3836)**
M74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC151			(Cont'd)
	National	MM74HC149 MM74HC151	
	Philips	74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
M74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
M74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
M74HC155	GoldStar	GD74HC155	
	Mitsubishi	M74HC155	
	National	MM74HC155	
	Toshiba	**TC74HC155A**	**(3836)**
M74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
M74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
M74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
M74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
M74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
M74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
M74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	TI	SN74HC164	
			(Continued)
M74HC164			(Cont'd)
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
M74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
M74HC166	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	TI	SN74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
M74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
M74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
M74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
M74HC181	Harris	CD74HC181	
	National	MM74HC181	
	Philips	74HC181	
	Toshiba	**TC74HC181A**	**(3836)**
M74HC182	Harris	CD74HC182	
	National	MM74HC182	
	Philips	74HC182	
	Toshiba	**TC74HC182A**	**(3836)**
M74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
M74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
M74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
M74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
M74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
			(Continued)
M74HC194			(Cont'd)
	National	MM74HC194	
	Philips	74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
M74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
M74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
M74HC21	GoldStar	GD74HC21	
	Harris	CD74HC21	
	Philips	74HC21	
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	**(3836)**
	Universal	US74HC21	
M74HC221	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221A	
	Toshiba	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
M74HC221A	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
	Toshiba	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
M74HC237	Harris	CD74HC22106 CD74HC237	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	TI	SN74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
M74HC238	Harris	CD74HC238	
	National	MM74HC238	
	Philips	74HC238	
	TI	SN74HC238	
	Toshiba	**TC74HC238A**	**(3836)**
M74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240 M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
M74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241HV	
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
M74HC241HV	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241	
			(Continued)
M74HC241HV			(Cont'd)
	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
M74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
M74HC243	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	National	MM74HC243	
	Philips	74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	**(3836)**
M74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244 M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
M74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245 M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245 MM74HC245A	
	Philips	74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
M74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
M74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
M74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
M74HC258	Harris	CD74HC258	
	National	MM74HC258	
	Philips	74HC258	
	TI	SN74HC258	
	Toshiba	**TC74HC258A**	**(3836)**
M74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
M74HC266	Mitsubishi	M74HC266 M74HC266A	
	National	MM74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	**(3836)**
M74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
M74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC273			(Cont'd)
	Mitsubishi	M74HC273	
		M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	(3836)
M74HC279	**Toshiba**	**TC74HC279A**	(3836)
M74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	(3836)
M74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
	TI	SN74HC283	
	Toshiba	**TC74HC283A**	(3836)
M74HC298	Motorola	MC74HC298	
	National	MM74HC298	
	TI	SN74HC298	
	Toshiba	**TC74HC298A**	(3836)
M74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	(3836)
M74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	(3836)
M74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	(3836)
M74HC323	National	MM74HC323	
	Toshiba	**TC74HC323A**	(3836)
M74HC352	TI	SN74HC352	
	Toshiba	**TC74HC352A**	(3836)
M74HC353	TI	SN74HC353	
	Toshiba	**TC74HC353A**	(3836)
M74HC354	Harris	CD74HC354	
	Motorola	MC74HC354	
	National	MM74HC354	
	Philips	74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	(3836)
M74HC356	Harris	CD74HC356	
	National	MM74HC356	
	Philips	74HC356	
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	(3836)
M74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	(3836)
M74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
			(Continued)
M74HC366			(Cont'd)
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	(3836)
M74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	TI	SN74HC367	
	Toshiba	**TC74HC367A**	(3836)
M74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	(3836)
M74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	(3836)
M74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	(3836)
M74HC375	TI	SN74HC375	
	Toshiba	**TC74HC375A**	(3836)
M74HC377	Harris	CD74HC377	
	Philips	74HC377	
	TI	SN74HC377	
	Toshiba	**TC74HC377A**	(3836)
M74HC386	TI	SN74HC386	
	Toshiba	**TC74HC386A**	(3836)
M74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	(3836)
M74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	(3836)
M74HC4002	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	(3836)
M74HC40102	Harris	CD74HC40102	
	Philips	74HC40102	
	Toshiba	**TC74HC4007A**	(3836)
		TC74HC40102A	(3836)
M74HC40103	Harris	CD74HC40103	
	Philips	74HC40103	
	Toshiba	**TC74HC40103A**	(3836)
M74HC4017	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	TI	SN74HC4017	
	Toshiba	**TC74HC4017A**	(3836)
M74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
			(Continued)
M74HC4020			(Cont'd)
	Philips	74HC4020	
	TI	SN74HC4020	
	Toshiba	TC74HC4020A	
M74HC4022	TI	SN74HC4022	
	Toshiba	**TC74HC4022A**	(3836)
M74HC4024	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	(3836)
M74HC4028	Toshiba	TC74HC4027A	
		TC74HC4028A	(3836)
M74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	TI	SN74HC4040	
	Toshiba	**TC74HC4040A**	(3836)
M74HC4049	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	Philips	74HC4049	
	Toshiba	**TC74HC4049A**	(3836)
M74HC4050	Harris	CD74HC4050	
	Mitsubishi	M74HC4050B	
	Motorola	MC74HC4050	
	National	MM74HC4050	
	Philips	74HC4050	
	Toshiba	**TC74HC4050A**	(3836)
M74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	Toshiba	**TC74HC4051A**	(3836)
M74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	Toshiba	**TC74HC4052A**	(3836)
M74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	Toshiba	**TC74HC4053A**	(3836)
M74HC4060	Harris	CD74HC4060	
	Motorola	MC74HC4060	
	National	MM74HC4060	
	Philips	74HC4060	
	TI	SN74HC4060	
	Toshiba	**TC74HC4060A**	(3836)
M74HC4066	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
	Toshiba	**TC74HC4066A**	(3836)
M74HC4072	**Toshiba**	**TC74HC4072A**	(3836)
M74HC4075	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	(3836)
M74HC4078	Mitsubishi	M74HC4078	
	Motorola	MC74HC4078	
	National	MM74HC4078	
	TI	SN74HC4078A	
	Toshiba	**TC74HC4078A**	(3836)
			(Continued)
M74HC4094	Harris	CD74HC4094	
	Philips	74HC4094	
	Toshiba	**TC74HC4094A**	(3836)
M74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	(3836)
M74HC423	Harris	CD74HC423	
	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423A	
	Toshiba	TC74HC423	
		TC74HC423A	(3836)
M74HC423A	Harris	CD74HC423	
	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423	
	Toshiba	TC74HC423	
		TC74HC423A	(3836)
M74HC4316	Harris	CD74HC4316	
	Motorola	MC74HC4316	
	National	MM74HC4316	
	Philips	74HC4316	
	Toshiba	**TC74HC4316A**	(3836)
M74HC4351	Harris	CD74HC4351	
	Motorola	MC74HC4351	
	Philips	74HC4351	
	Toshiba	**TC74HC4351A**	(3836)
M74HC4352	Harris	CD74HC4352	
	Motorola	MC74HC4352	
	Philips	74HC4352	
	Toshiba	**TC74HC4352A**	(3836)
M74HC4353	Harris	CD74HC4353	
	Motorola	MC74HC4353	
	Philips	74HC4353	
	Toshiba	**TC74HC4353A**	(3836)
M74HC4511	Harris	CD74HC4511	
	Motorola	MC74HC4511	
	National	MM74HC4511	
	Philips	74HC4511	
	Toshiba	**TC74HC4511A**	(3836)
M74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	(3836)
M74HC4518	Harris	CD74HC4518	
	National	MM74HC4518	
	Philips	74HC4518	
	Toshiba	**TC74HC4518A**	(3836)
M74HC4538	Harris	CD74HC4538	
	Motorola	MC74HC4538A	
	National	MM74HC4538	
	Philips	74HC4538	
	Toshiba	**TC74HC4538A**	(3836)
M74HC4543	Harris	CD74HC4543	
	National	MM74HC4543	
	Philips	74HC4543	
	Toshiba	TC74HC4543A	
M74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	(3836)
M74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
	Philips	74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	(3836)
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
M74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
M74HC540	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	TI	SN74HC540	
	Toshiba	TC74HC5353A	
		TC74HC540A	**(3836)**
M74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	Philips	74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
M74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555	
		74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
M74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
M74HC573	Harris	CD74HC573	
	Motorola	MC74HC573A	
	National	MM74HC573	
	Philips	74HC573	
	TI	SN74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
M74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
	National	MM74HC574	
	Philips	74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
M74HC590	National	MM74HC590	
	TI	SN74HC590A	
	Toshiba	**TC74HC590A**	**(3836)**
M74HC592	National	MM74HC592	
	Toshiba	**TC74HC592A**	**(3836)**
M74HC593	National	MM74HC593	
	Toshiba	**TC74HC593A**	**(3836)**
M74HC595	Mitsubishi	M74HC595	
	Motorola	MC74HC595A	
	National	MM74HC595	
	TI	SN74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
M74HC597	Harris	CD74HC597	
	Motorola	MC74HC597	
	National	MM74HC597	
	Philips	74HC597	
	Toshiba	TC74HC597A	
M74HC620	National	MM74HC620	
	TI	SN74HC620	
	Toshiba	**TC74HC620A**	**(3836)**
M74HC623	National	MM74HC623	
	TI	SN74HC623	
	Toshiba	**TC74HC623A**	**(3836)**
M74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
M74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
	National	MM74HC643	
	Philips	74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
M74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	TI	SN74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
M74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	TI	SN74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
M74HC651	Harris	CD74HC651	
	TI	SN74HC651	
	Toshiba	**TC74HC651A**	**(3836)**
M74HC652	Harris	CD74HC652	
	TI	SN74HC652	
	Toshiba	**TC74HC652A**	**(3836)**
M74HC670	Harris	CD74HC670	
	Motorola	MC74HC670	
	Philips	74HC670	
	Toshiba	**TC74HC670A**	**(3836)**
M74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
M74HC690	**Toshiba**	**TC74HC690A**	**(3836)**
M74HC691	**Toshiba**	**TC74HC691A**	**(3836)**
M74HC692	**Toshiba**	**TC74HC692A**	**(3836)**
M74HC693	**Toshiba**	**TC74HC693A**	**(3836)**
M74HC696	**Toshiba**	**TC74HC696A**	**(3836)**
M74HC698	**Toshiba**	**TC74HC697A**	**(3836)**
		TC74HC698A	**(3836)**
M74HC699	**Toshiba**	**TC74HC699A**	**(3836)**
M74HC7007	TI	SN74HC7006	
M74HC7240	**Toshiba**	**TC74HC7240A**	**(3836)**
M74HC7241	**Toshiba**	**TC74HC7241A**	**(3836)**
M74HC7244	**Toshiba**	**TC74HC7244A**	**(3836)**
M74HC7266	Harris	CD74HC7266	
	Motorola	MC74HC7266	
	National	MM74HC7266	
	Philips	74HC7266	
	TI	SN74HC7266	
	Toshiba	**TC74HC7266A**	**(3836)**
M74HC7292	**Toshiba**	**TC74HC7292A**	**(3836)**
M74HC7294	**Toshiba**	**TC74HC7294A**	**(3836)**
M74HC73	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	Philips	74HC73	
	TI	SN74HC73	
	Toshiba	**TC74HC73A**	**(3836)**
M74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
M74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
M74HC76	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	National	MM74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
M74HC7640	Toshiba	TC74HC7640A	
M74HC7643	**Toshiba**	**TC74HC7643A**	**(3836)**
M74HC7645	**Toshiba**	**TC74HC7645A**	**(3836)**
M74HC77	TI	SN74HC77	
	Toshiba	**TC74HC77A**	**(3836)**
M74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
M74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
M9306	Samsung	KM93C06	
NE532	Philips	NE532	
NE555	Harris	CA555	
	Motorola	MC1455	
	National	μA555	
		LM555	
	NEC	μPC1555	
	Philips	NE555	
	TI	NE555	
	Toshiba	TA7555	
NE556	Harris	ICM7556	
	Motorola	MC3456	
	National	μA556	
		LM556	
	Philips	NE556	
	TI	NE556	
PBL3717	Unitrode	UC3717	
SA555	TI	SA555	
SA556	Harris	ICM7556	
	TI	SA556	
SE555	National	LM555	
SE556	Harris	ICM7556	
	Motorola	MC3556	
	National	LM556	
	TI	SE556	
SE558	Philips	SE555	
SG1524	Harris	CA1524	
	Linfinity Micro	SG1524	
	National	LM1524	
	Unitrode	UC1524	
SG1525	Linfinity Micro	SG1525	
	Siliconix	PWM125	
SG1527	Linfinity Micro	SG1527	
	Unitrode	UC1527	
SG2524	Harris	CA2524	
	Linfinity Micro	SG2524	
	National	LM2524	
	Unitrode	UC2524	
SG2525	Linfinity Micro	SG2525	
	Siliconix	PWM125	
	Unitrode	UC2525	
SG2527	Linfinity Micro	SG2527	
SG2821	SGS-Thomson	L601	
SG3524	Harris	CA3524	
	Linfinity Micro	SG3524	
	National	LM3524	
	Philips	SG3524	
	Unitrode	UC3524	
SG3525	Motorola	SG3525	
	Samsung	KA3525	
	Siliconix	PWM125	
	Unitrode	UC3525	
SG3527	Linfinity Micro	SG3727	
	Motorola	SG3527	
	National	LM3527	
	Unitrode	UC3527	
SG556	National	LM556	
STC500	GEC Plessey	MV500	
ST24C04	Ramtron	FM24C04	
ST27C64	AMD	AM27C64	
TBA1440	Motorola	MC13010	
TBA331	GEC Plessey	SL3046	
TBA440	Motorola	MC13010	
TBA920	Motorola	MC1391	
TBC0136	National	LM336	
TCA3089	National	LM3089	
TCA5600	Motorola	TCA5600	
TCF6000	Motorola	TCF6000	
TDA2310	National	LM381	
TDA2540	Motorola	MC13010	
TDA2544	Motorola	MC13010	
TDA3190	Motorola	TDA3190	
TDA3301	Motorola	TDA3301	
TDA3303	Motorola	TDA3303	
TDA4420	Motorola	MC13010	
TDA5600	Motorola	MC13010	
TDC1048	Motorola	MC10319	
TD62001	Motorola	MC1411	
TD62002	Motorola	MC1412	
TD62003	Motorola	MC1413	
TD62477	Motorola	MC1472	
TD62479	Motorola	MC1374	
TEA3717	Ericsson	PBL3712	
TL061	Motorola	MC33181	
	TI	TL061	
	Toshiba	TA75061	
TL062	Motorola	MC33182	
	TI	TL062	
	Toshiba	TA75062	
TL064	Motorola	MC33184	
	TI	TL064	
	Toshiba	TA75064	
TL071	Motorola	TL071	
	National	μA771	
	TI	TL071	
	Toshiba	TA75071	
TL072	Motorola	MC33282	
		TL070	
		TL072	
	National	μA772	
		μA774	
	TI	TL072	
	Toshiba	TA75072	
TL072MHB/C	TI	TL072MLB	
TL072MJ7B/C	TI	TL072MJGB	
TL074	Motorola	TL074	
	National	μA774	
	TI	TL074	
	Toshiba	TA75074	
TL074MJ7B/C	TI	TL074MJB	
TL081	Harris	CA081	
	Motorola	TL081	
	TI	TL081	
TL082	Harris	CA082	
	Motorola	MC33282	
		TL082	
	TI	TL082	
TL084	Harris	CA084	
	Motorola	MC33284	
		TL084	
	TI	TL084	
TL374	TI	TLC374	
TL7702	TI	TL7702	
TL7705	TI	TL7705	
TL7709	TI	TL7709	
TL7712	TI	TL7712	
TL7715	TI	TL7715	
TMS27C512	Krueger	27C512-150	
		27C512-200	
		27C512-250	
TS27C256	AMD	AM27C256	
	SEEQ	27C256	
	Waferscale	WS27C256	
TS27L1	**NJR**	**NJU7001**	**(3705)**
TS27L2	**NJR**	**NJU7002**	**(3705)**
	TI	TLC27L2	
TS27L3	**NJR**	**NJU7004**	**(3705)**
TS27L4	TI	TLC27L4	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TS27M1	NJR	NJU7021	
TS27M2	NJR	NJU7022	
	TI	TLC27M2	
TS27M3	NJR	NJU7024	
TS27M4	National	LMC660	
	TI	TLC27M4	
TS271	NJR	NJU7031	
	TI	TLC271	
TS272	NJR	NJU7032	
	TI	TLC272	
TS273	NJR	NJU7034	
TS274	TI	TLC274	
TS28C16	Catalyst Semi	CAT28C16	
TS28C17	Catalyst Semi	CAT28C17	
TS339	TI	TLC339	
TS3702	NJR	NJU7102A	
	TI	TLC3702	
TS3704	NJR	NJU7104A	
	TI	TLC3704	
TS372	TI	TLC372	
TS393	TI	TLC393	
TS59C11	Catalyst Semi	CAT59C11	
TS68000	Krueger	68000	
TS68008	Krueger	68008	
TS8306	GEC Plessey	SP9756	
TS8308	GEC Plessey	SP973	
TS93C46	**Catalyst Semi**	**CAT93C46**	**(3565)**
	Samsung	KM93C46	
T54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
	Motorola	SN54LS00	
	National	DM54LS00	
		54LS00	
	SGS-Thomson	54LS00	
	TI	SN54LS00	
T54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
		54LS02	
	SGS-Thomson	54LS02	
	TI	SN54LS02	
T54LS04	GoldStar	GD54LS04	
		54LS04	
	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson	54LS04	
	TI	SN54LS04	
T54LS05A	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
		54LS05	
	SGS-Thomson	54LS05	
	TI	SN54LS05	
T54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
		54LS09	
	SGS-Thomson	54LS09	
	TI	SN54LS09	
T54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	Motorola	SN54LS10	
	National	DM54LS10	
		54LS10	
	SGS-Thomson	54LS10	
	TI	SN54LS10	
T54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	Motorola	SN54LS11	
	National	DM54LS11	
		54LS11	
	SGS-Thomson	54LS11	
	TI	SN54LS11	
T54LS114	Motorola	SN54LS114A	
	National	54LS114	
	TI	SN54LS114A	
T54LS13	Lansdale	SL54LS13	
	Motorola	SN54LS13	
	National	54LS13	
	TI	SN54LS13	
T54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	
	SGS-Thomson	54LS132	
	TI	SN54LS132	
T54LS136	Lansdale	SL54LS136	
	Motorola	SN54LS136	
	National	DM54LS136	
		54LS136	
	SGS-Thomson	54LS136	
	TI	SN54LS136	
T54LS138	GoldStar	GD54LS138	
	Motorola	SN54LS138	
	National	DM54LS138	
		54LS138	
	SGS-Thomson	54LS138	
	TI	SN54LS138	
T54LS139	GoldStar	GD54LS139	
	Lansdale	54LS139	
	Motorola	SN54LS139	
	National	DM54LS139	
		54LS139	
	SGS-Thomson	54LS139	
	TI	SN54LS139A	
T54LS14	GoldStar	GD54LS14	
	Lansdale	SL54LS14	
	Motorola	SN54LS14	
	National	54LS14	
	SGS-Thomson	54LS14	
	TI	SN54LS14	
T54LS15	GoldStar	GD54LS15	
	Motorola	SN54LS15	
	National	54LS15	
	SGS-Thomson	54LS15	
	TI	SN54LS15	
T54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
		54LS151	
	SGS-Thomson	54LS151	
	TI	SN54LS151	
T54LS155	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	Motorola	SN54LS155	
	National	DM54LS155	
		54LS155	
	SGS-Thomson	54LS155	
	TI	SN54LS155A	
T54LS156	Lansdale	SL54LS156	
	Motorola	SN54LS156	
	National	DM54LS156	
		54LS156	
	SGS-Thomson	54LS156	
	TI	SN54LS156	
T54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	Motorola	SN54LS157	
	National	DM54LS157	
		54LS157	
	SGS-Thomson	54LS157	
	TI	SN54LS157	
T54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	Motorola	SN54LS158	
	National	DM54LS158	
		54LS158	
	SGS-Thomson	54LS158	
	TI	SN54LS158	
T54LS168	Motorola	SN54LS168	
	National	DM54LS168A	
		54LS168	
T54LS169	Lansdale	SL54LS169A	
	Motorola	SN54LS169	
	National	DM54LS169A	
		54LS169	
	TI	SN54LS169B	
T54LS170	Lansdale	SL54LS170	
	Motorola	SN54LS170	
	National	54LS170	
	SGS-Thomson	54LS170	
	TI	SN54LS170	
T54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
		54LS174	
	SGS-Thomson	54LS174	
	TI	SN54LS174	
T54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
		54LS175	
	SGS-Thomson	54LS175	
	TI	SN54LS175	
T54LS192	Lansdale	SL54LS192	
	Motorola	SN54LS192	
	National	54LS192	
	SGS-Thomson	54LS192	
	TI	SN54LS192	
T54LS193	GoldStar	GD54LS193	
	Motorola	SN54LS193	
	National	DM54LS193	
		54LS193	
	SGS-Thomson	54LS193	
	TI	SN54LS193	
T54LS194A	GoldStar	GD54LS194A	
	Lansdale	SL54LS194A	
	Motorola	SN54LS194A	
	National	54LS194A	
	TI	SN54LS194A	
T54LS195A	GoldStar	GD54LS195A	
	Motorola	SN54LS195A	
	National	54LS195	
	SGS-Thomson	54LS195A	
	TI	SN54LS195A	
T54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
		54LS20	
	SGS-Thomson	54LS20	
	TI	SN54LS20	
T54LS22	Motorola	SN54LS22	
	National	54LS22	
	SGS-Thomson	54LS22	
	TI	SN54LS22	
T54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
		54LS240	
	SGS-Thomson	54LS240	
	TI	SN54LS240	
T54LS256	Lansdale	SL54LS256	
	Motorola	SN54LS256	
	National	54LS256	
T54LS258A	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson	54LS258	
	TI	SN54LS258B	
T54LS259	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
		54LS259	
	SGS-Thomson	54LS259	
	TI	SN54LS259B	
T54LS260	Lansdale	SL54LS260	
	Motorola	SN54LS260	
	National	54LS260	
T54LS266	Lansdale	SL54LS266	
	Motorola	SN54LS266	
	National	54LS266	
	SGS-Thomson	54LS266	
	TI	SN54LS266	
T54LS27	GoldStar	GD54LS27	
	Motorola	SN54LS27	
	National	DM54LS27	
		54LS27	
	SGS-Thomson	54LS27	
	TI	SN54LS27	
T54LS273	GoldStar	GD54LS273	
	Lansdale	SL54LS273	
	Motorola	SN54LS273	
	National	54LS273	
	Philips	54LS273	
	SGS-Thomson	54LS273	
	TI	SN54LS273	
T54LS279	Motorola	SN54LS279	
	National	DM54LS279	
		54LS279	
	SGS-Thomson	54LS279	
	TI	SN54LS279A	
T54LS28	Motorola	SN54LS28	
	National	54LS28	
	TI	SN54LS28	
T54LS280	GoldStar	GD54LS280	
	Motorola	SN54LS280	
	SGS-Thomson	54LS280	
	TI	SN54LS280	
T54LS293	Motorola	SN54LS293	
	SGS-Thomson	54LS293	
	TI	SN54LS293	
T54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
	Motorola	SN54LS30	
	National	DM54LS30	
		54LS30	
	SGS-Thomson	54LS30	
	TI	SN54LS30	
T54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
		54LS32	
	SGS-Thomson	54LS32	
	TI	SN54LS32	
T54LS33	Lansdale	SL54LS33	
	Motorola	SN54LS33	
	National	54LS33	
	TI	SN54LS33	
T54LS352	Lansdale	SL54LS352	
	Motorola	SN54LS352	
	National	DM54LS352	
		54LS352	
	TI	SN54LS352	
T54LS353	Lansdale	SL54LS353	
	Motorola	SN54LS353	
	National	54LS353	
	TI	SN54LS353	
T54LS365A	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	DM54LS365A	
		54LS365	
	SGS-Thomson	54LS365	
	TI	SN54LS365A	
T54LS366A	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
		54LS366	
	SGS-Thomson	54LS366	
	TI	SN54LS366A	
T54LS367A	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
		54LS367	
	SGS-Thomson	54LS367	
	TI	SN54LS367A	
T54LS368A	GoldStar	GD54LS368A	
	Motorola	SN54LS368A	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
T54LS368A			(Cont'd)
	National	DM54LS368A	
		54LS368	
	SGS-Thomson	54LS368	
	TI	SN54LS368A	
T54LS37	Lansdale	SL54LS37	
	Motorola	SN54LS37	
	National	DM54LS37	
		54LS37	
	SGS-Thomson	54LS37	
	TI	SN54LS37	
T54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
	Motorola	SN54LS373	
	National	DM54LS373	
	SGS-Thomson	54LS373	
	TI	SN54LS373	
T54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
		54LS374	
	SGS-Thomson	54LS374	
	TI	SN54LS374	
T54LS377	GoldStar	GD54LS377	
	Lansdale	SL54LS377	
	Motorola	SN54LS377	
	National	54LS377	
	SGS-Thomson	54LS377	
	TI	SN54LS377	
T54LS378	Lansdale	SL54LS378	
	Motorola	SN54LS378	
	National	54LS378	
	TI	SN54LS378	
T54LS379	Motorola	SN54LS379	
	National	54LS379	
	TI	SN54LS379	
T54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
		54LS38	
	SGS-Thomson	54LS38	
	TI	SN54LS38	
T54LS390	GoldStar	GD54LS390	
	Lansdale	SL54LS390	
	Motorola	SN54LS390	
	SGS-Thomson	54LS390	
	TI	SN54LS390	
T54LS393	GoldStar	GD54LS393	
	Lansdale	SL54LS393	
	Motorola	SN54LS393	
	TI	SN54LS393	
T54LS395	GoldStar	GD54LS395	
	Lansdale	**SL54LS395A**	**(3674)**
	TI	SN54LS395A	
T54LS40	Lansdale	SL54LS40	
	Motorola	SN54LS40	
	National	54LS40	
	SGS-Thomson	54LS40	
	TI	SN54LS40	
T54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	DM54LS42	
		54LS42	
	SGS-Thomson	54LS42	
	TI	SN54LS42	
T54LS490	**Lansdale**	**SL54LS490**	**(3674)**
	Motorola	SN54LS490	
	National	54LS490	
	TI	SN54LS490	
T54LS54	Lansdale	SL54LS54	
	Motorola	SN54LS54	
	National	54LS54	
	SGS-Thomson	54LS54	
	TI	SN54LS54	
T54LS55	GoldStar	GD54LS55	
	Motorola	SN54LS55	
			(Continued)
T54LS55			(Cont'd)
	National	54LS55	
	SGS-Thomson	54LS55	
T54LS74A	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
		54LS74	
	SGS-Thomson	54LS74	
	TI	SN54LS74A	
T54LS93	GoldStar	GD54LS93	
	Lansdale	SL54LS93	
	Motorola	SN54LS93	
	SGS-Thomson	54LS93	
	TI	SN54LS93	
T74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	**(3674)**
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	74LS00	
	TI	SN74LS00	
T74LS01	**Lansdale**	**SL74LS01**	**(3674)**
	Motorola	SN74LS01	
	SGS-Thomson	74LS01	
	TI	SN74LS01	
T74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	**(3674)**
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
	SGS-Thomson	74LS02	
	TI	SN74LS02	
T74LS03A	Motorola	SN74LS03	
	National	DM74LS03	
		74LS03	
	Rochester	74LS03	
	SGS-Thomson	74LS03	
	TI	SN74LS03	
T74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	**(3674)**
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
	Rochester	74LS04	
	SGS-Thomson	74LS04	
	TI	SN74LS04	
T74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	**(3674)**
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
	Rochester	74LS05	
	SGS-Thomson	74LS05	
	TI	SN74LS05	
T74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	**(3674)**
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
	Rochester	74LS08	
	SGS-Thomson	74LS08	
	TI	SN74LS08	
T74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	**(3674)**
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
	Rochester	74LS09	
	SGS-Thomson	74LS09	
	TI	SN74LS09	
T74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	**(3674)**
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
	Rochester	74LS10	
	SGS-Thomson	74LS10	
	TI	SN74LS10	
			(Continued)
T74LS109A	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	**(3674)**
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
	TI	SN74LS109A	
T74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	**(3674)**
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
	Rochester	74LS11	
	SGS-Thomson	74LS11	
	TI	SN74LS11	
T74LS112A	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	**(3674)**
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
	TI	SN74LS112A	
T74LS113A	**Lansdale**	**SL74LS113**	**(3674)**
	Motorola	SN74LS113A	
	Rochester	74LS113	
	TI	SN74LS113A	
T74LS114A	Motorola	SN74LS114A	
	Rochester	74LS114	
	TI	SN74LS114A	
T74LS12	Motorola	SN74LS12	
	National	DM74LS12	
		74LS12	
	Rochester	74LS12	
	SGS-Thomson	74LS12	
	TI	SN74LS12	
T74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125**	**(3674)**
		SL74LS125A	**(3674)**
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson	74LS125A	
	TI	SN74LS125A	
T74LS126A	**Lansdale**	**SL74LS126A**	**(3674)**
	Motorola	SN74LS126A	
	National	DM74LS126	
		74LS126	
	SGS-Thomson	74LS126	
	TI	SN74LS126A	
T74LS13	**Lansdale**	**SL74LS13**	**(3674)**
	Motorola	SN74LS13	
	National	74LS13	
	SGS-Thomson	74LS13	
	TI	SN74LS13	
T74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	**(3674)**
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
	SGS-Thomson	74LS132	
	TI	SN74LS132	
T74LS133	Motorola	SN74LS133	
	National	74LS133	
	SGS-Thomson	74LS133	
T74LS136	**Lansdale**	**SL74LS136**	**(3674)**
	Motorola	SN74LS136	
	National	74LS136	
	SGS-Thomson	74LS136	
	TI	SN74LS136	
T74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	**(3674)**
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
	SGS-Thomson	74LS138	
	TI	SN74LS138	
T74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	**(3674)**
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
	SGS-Thomson	74LS139	
	TI	SN74LS139A	
			(Continued)
T74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	**(3674)**
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
	SGS-Thomson	74LS14	
	TI	SN74LS14	
T74LS148	GoldStar	GD74LS148	
	Motorola	SN74LS148	
	TI	SN74LS148	
T74LS15	GoldStar	GD74LS15	
	Motorola	SN74LS15	
	National	74LS15	
	SGS-Thomson	74LS15	
	TI	SN74LS15	
T74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	**(3674)**
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
	SGS-Thomson	74LS151	
	TI	SN74LS151	
T74LS152	Rochester	74LS152	
	SGS-Thomson	74LS152	
T74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	**(3674)**
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
	SGS-Thomson	74LS153	
	TI	SN74LS153	
T74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	**(3674)**
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
	SGS-Thomson	74LS155	
	TI	SN74LS155A	
T74LS156	**Lansdale**	**SL74LS156**	**(3674)**
	Motorola	SN74LS156	
	National	DM74LS156	
		74LS156	
	SGS-Thomson	74LS156	
	TI	SN74LS156	
T74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	**(3674)**
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
	SGS-Thomson	74LS157	
	TI	SN74LS157	
T74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
	Rochester	74LS158	
	SGS-Thomson	74LS158	
	TI	SN74LS158	
T74LS160A	**Lansdale**	**SL74LS160A**	**(3674)**
	Motorola	SN74LS160A	
	National	74LS160	
	TI	SN74LS160A	
T74LS161A	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	**(3674)**
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
	TI	SN74LS161A	
T74LS162A	**Lansdale**	**SL74LS162A**	**(3674)**
	Motorola	SN74LS162A	
	National	74LS162	
	TI	SN74LS162A	
T74LS163A	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	**(3674)**
	Motorola	SN74LS163A	
	National	DM74LS163A	
		74LS163	
	TI	SN74LS163A	
T74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	**(3674)**
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
T74LS164			(Cont'd)
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
	SGS-Thomson	74LS164	
	TI	SN74LS164	
T74LS166	GoldStar	GD74LS166	
	Motorola	SN74LS166	
	National	DM74LS166	
	SGS-Thomson	74LS166	
	TI	SN74LS166A	
T74LS168	Motorola	SN74LS168	
	SGS-Thomson	74LS168	
T74LS169	**Lansdale**	**SL74LS169A**	(3674)
	Motorola	SN74LS169	
	National	DM74LS169A	
		74LS169	
	Rochester	74LS169	
	SGS-Thomson	74LS169	
	TI	SN74LS169B	
T74LS170	Motorola	SN74LS170	
	National	74LS170	
	SGS-Thomson	74LS170	
	TI	SN74LS170	
T74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	(3674)
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
	SGS-Thomson	74LS174	
	TI	SN74LS174	
T74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	(3674)
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
	SGS-Thomson	74LS175	
	TI	SN74LS175	
T74LS181	Motorola	SN74LS181	
	National	74LS181	
	SGS-Thomson	74LS181	
	TI	SN74LS181	
T74LS190	Motorola	SN74LS190	
	National	DM74LS190	
		74LS190	
	SGS-Thomson	74LS190	
	TI	SN74LS190	
T74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	(3674)
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
	SGS-Thomson	74LS191	
	TI	SN74LS191	
T74LS192	**Lansdale**	**SL74LS192**	(3674)
	Motorola	SN74LS192	
	National	74LS192	
	SGS-Thomson	74LS192	
	TI	SN74LS192	
T74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	(3674)
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
	SGS-Thomson	74LS193	
	TI	SN74LS193	
T74LS194A	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	(3674)
	Motorola	SN74LS194A	
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson	74LS194	
	TI	SN74LS194A	
T74LS195A	GoldStar	GD74LS195A	
	Motorola	SN74LS195A	
	National	DM74LS195A	
			(Continued)
T74LS195A			(Cont'd)
	SGS-Thomson	74LS195	
	TI	SN74LS195A	
T74LS196	Motorola	SN74LS196	
	National	74LS196	
	SGS-Thomson	74LS196	
	TI	SN74LS196	
T74LS197	**Lansdale**	**SL74LS197**	(3674)
	Motorola	SN74LS197	
	National	74LS197	
	SGS-Thomson	74LS197	
	TI	SN74LS197	
T74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	(3674)
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
	Rochester	74LS20	
	SGS-Thomson	74LS20	
	TI	SN74LS20	
T74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	(3674)
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
	Rochester	74LS21	
	SGS-Thomson	74LS21	
	TI	SN74LS21	
T74LS22	Motorola	SN74LS22	
	Rochester	74LS22	
	SGS-Thomson	74LS22	
	TI	SN74LS219A	
T74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	(3674)
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
	SGS-Thomson	74LS240	
	TI	SN74LS240	
T74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	(3674)
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
	SGS-Thomson	74LS241	
	TI	SN74LS241	
T74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	(3674)
	Motorola	SN74LS244	
	National	DM74LS244	
		74LS244	
	SGS-Thomson	74LS244	
	TI	SN74LS244	
T74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	(3674)
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
	Rochester	74LS245	
	SGS-Thomson	74LS245	
	TI	SN74LS245	
T74LS248	Motorola	SN74LS248	
	National	74LS248	
T74LS248B1	Motorola	MC74LS249	
	National	74LS249	
T74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	(3674)
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
	Rochester	74LS251	
	SGS-Thomson	74LS251	
	TI	SN74LS251	
T74LS253	**Lansdale**	**SL74LS253**	(3674)
	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
	Rochester	74LS253	
	SGS-Thomson	74LS253	
	TI	SN74LS253	
T74LS256	**Lansdale**	**SL74LS256**	(3674)
	Motorola	SN74LS256	
			(Continued)
T74LS256			(Cont'd)
	National	74LS256	
	SGS-Thomson	74LS256	
T74LS257A	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	(3674)
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson	74LS257	
	TI	SN74LS257B	
T74LS258A	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	(3674)
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
		74LS258	
	Rochester	74LS258	
	SGS-Thomson	74LS258	
	TI	SN74LS258B	
T74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	(3674)
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
	Rochester	74LS259	
	SGS-Thomson	74LS259	
	TI	SN74LS259B	
T74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	(3674)
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson	T74LS26A	
		74LS26	
	TI	SN74LS26	
T74LS26A	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	(3674)
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson	T74LS26	
		74LS26	
	TI	SN74LS26	
T74LS260	Motorola	SN74LS260	
	National	74LS260	
	SGS-Thomson	74LS260	
T74LS266	**Lansdale**	**SL74LS266**	(3674)
	Motorola	SN74LS266	
	National	74LS266	
	SGS-Thomson	74LS266	
	TI	SN74LS266	
T74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	(3674)
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
	Rochester	74LS27	
	SGS-Thomson	74LS27	
	TI	SN74LS27	
T74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	(3674)
	Motorola	SN74LS273	
	National	74LS273	
	SGS-Thomson	74LS273	
	TI	SN74LS273	
T74LS279	Motorola	SN74LS279	
	National	DM74LS279	
		74LS279	
	Rochester	74LS279	
	SGS-Thomson	74LS279	
	TI	SN74LS279A	
T74LS28	Motorola	SN74LS28	
	National	74LS28	
	SGS-Thomson	74LS28	
	TI	SN74LS28	
			(Continued)
T74LS280	GoldStar	GD74LS280	
	Motorola	SN74LS280	
	SGS-Thomson	74LS280	
	TI	SN74LS280	
T74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	(3674)
	Motorola	SN74LS283	
	National	DM74LS283	
		74LS283	
	SGS-Thomson	74LS283	
	TI	SN74LS283	
T74LS290	Motorola	SN74LS290	
	National	DM74LS290	
		74LS290	
	TI	SN74LS290	
T74LS293	Motorola	SN74LS293	
	National	DM74LS293	
		74LS293	
	SGS-Thomson	74LS293	
	TI	SN74LS292	
		SN74LS293	
T74LS295A	**Lansdale**	**SL74LS295B**	(3674)
	SGS-Thomson	74LS295A	
	TI	SN74LS294	
		SN74LS295B	
T74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	(3674)
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson	74LS298	
	TI	SN74LS297	
		SN74LS298	
T74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	(3674)
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
	Rochester	74LS30	
	SGS-Thomson	74LS30	
	TI	SN74LS30	
T74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	(3674)
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson	74LS32	
	TI	SN74LS31	
		SN74LS32	
T74LS33	**Lansdale**	**SL74LS33**	(3674)
	Motorola	SN74LS33	
	National	74LS33	
	SGS-Thomson	74LS33	
	TI	SN74LS33	
T74LS352	**Lansdale**	**SL74LS352**	(3674)
	Motorola	SN74LS352	
	National	DM74LS352	
		74LS352	
	SGS-Thomson	74LS352	
	TI	SN74LS352	
T74LS353	**Lansdale**	**SL74LS353**	(3674)
	Motorola	SN74LS353	
	National	74LS353	
	SGS-Thomson	74LS353	
	TI	SN74LS353	
T74LS365A	**Lansdale**	**SL74LS365A**	(3674)
	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
	Rochester	74LS365	
	SGS-Thomson	74LS365A	
	TI	SN74LS365A	
T74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	(3674)
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
	SGS-Thomson	74LS366A	
	TI	SN74LS366A	
			(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
T74LS367A	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A 74LS367	
	Rochester	74LS367	
	SGS-Thomson	74LS367A	
	TI	SN74LS367A	
T74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	DM74LS368A 74LS368	
	Rochester	74LS368	
	SGS-Thomson	74LS368A	
	TI	SN74LS368A	
T74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37 74LS37	
	Rochester	74LS37	
	SGS-Thomson	74LS37	
	TI	SN74LS37	
T74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	Motorola	SN74LS373	
	National	DM74LS373 74LS373	
	SGS-Thomson	74LS373	
	TI	SN74LS373	
T74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	DM74LS374 74LS374	
	SGS-Thomson	74LS374	
	TI	SN74LS374	
T74LS377	GoldStar	GD74LS377	
	Lansdale	**SL74LS377**	**(3674)**
	Motorola	SN74LS377	
	National	74LS377	
	SGS-Thomson	74LS377	
	TI	SN74LS377	
T74LS378	**Lansdale**	**SL74LS378**	**(3674)**
	Motorola	SN74LS378	
	National	74LS378	
	SGS-Thomson	74LS378	
	TI	SN74LS378	
T74LS379	Motorola	SN74LS379	
	National	74LS379	
	SGS-Thomson	74LS379	
	TI	SN74LS379	
T74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38 74LS38	
	Rochester	74LS38	
	SGS-Thomson	74LS38	
	TI	SN74LS38	
T74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson	74LS390	
	TI	SN74LS390	
T74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	DM74LS393 74LS393	
	SGS-Thomson	74LS393	
	TI	SN74LS393	
T74LS395A	GoldStar	GD74LS395	
	Lansdale	**SL74LS395A**	**(3674)**
	Motorola	SN74LS395	
	National	74LS395	
	SGS-Thomson	74LS395	
	TI	SN74LS395A	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
T74LS399	Motorola	SN74LS399	
	SGS-Thomson	74LS399	
	TI	SN74LS399	
T74LS40	Motorola	SN74LS40	
	National	74LS40	
	SGS-Thomson	74LS40	
	TI	SN74LS40	
T74LS42	GoldStar	GD74LS42	
	Motorola	SN74LS42	
	National	DM74LS42 74LS42	
	Rochester	74LS42	
	SGS-Thomson	74LS42	
	TI	SN74LS42	
T74LS490	**Lansdale**	**SL74LS490**	**(3674)**
	Motorola	SN74LS490	
	National	74LS490	
	SGS-Thomson	74LS490	
T74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51 74LS503 74LS51	
	Rochester	74LS51	
	SGS-Thomson	74LS51	
	TI	SN74LS51	
T74LS533	**Lansdale**	**SL74LS533**	**(3674)**
	National	74LS533	
T74LS534	**Lansdale**	**SL74LS534**	**(3674)**
	National	74LS534	
T74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	Motorola	SN74LS54	
	National	74LS54	
	SGS-Thomson	74LS54	
	TI	SN74LS54	
T74LS540	**Lansdale**	**SL74LS540**	**(3674)**
	Motorola	SN74LS540	
	National	74LS540	
	TI	SN74LS540	
T74LS541	**Lansdale**	**SL74LS541**	**(3674)**
	Motorola	SN74LS541	
	TI	SN74LS541	
T74LS541B1	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS55 74LS55	
	TI	SN74LS55	
T74LS55	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS541B1 74LS55	
	TI	SN74LS55	
T74LS645	**Lansdale**	**SL74LS645** **SL74LS645-1**	**(3674)**
	Motorola	SN74LS645	
	TI	SN74LS645 SN74LS645-1	
T74LS645B1	GoldStar	GD74LS646	
	TI	SN74LS646	
T74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	DM74LS670 74LS670	
	Rochester	74LS670	
	SGS-Thomson	74LS670	
	TI	SN74LS670	
T74LS74A	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74 74LS74	
	Rochester	74LS74	
	SGS-Thomson	74LS74	
	TI	SN74LS74A	
T74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748 SN74LS75	

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Manufacturer Device	Replacement Source	Device	IC Master Page
T74LS75			(Cont'd)
	National	DM74LS75	
	Rochester	74LS75	
	TI	SN74LS75	
T74LS75B1	**Lansdale**	**SL74LS76**	**(3674)**
	Motorola	SN74LS76A	
	TI	SN74LS76A	
T74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A 74LS83	
	Rochester	74LS83	
	SGS-Thomson	74LS83A	
	TI	SN74LS83A	
T74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86 74LS86	
	Rochester	74LS86	
	SGS-Thomson	74LS86	
	TI	SN74LS86A	
T74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson	74LS90	
	TI	SN74LS90	
T74LS90B1	SGS-Thomson	T74LS91	
	TI	SN74LS91	
T74LS91	SGS-Thomson	T74LS90B1	
	TI	SN74LS91	
T74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	TI	SN74LS92	
T74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	74LS93	
	TI	SN74LS93	
T74LS93B1	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson	T74LS95B 74LS95B	
	TI	SN74LS95B	
T74LS95B	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson	T74LS93B1 74LS95B	
	TI	SN74LS95B	
UAA4000	GEC Plessey	SL490	
UA723MJ7B/C	TI	UA723MJB	
UCN4801	Allegro Micro	UCN5801	
UC1840	Unitrode	UC1840	
UC1842	Unitrode	UC1842	
UC1844	Unitrode	UC1844	
UC2840	Unitrode	UC2840	
UC2842	Motorola	UC2842	
	Unitrode	UC2842	
UC2843	Motorola	UC2843	
	Unitrode	UC2843	
UC2844	Motorola	UC2844	
UC2845	Motorola	UC2845	
UC3840	Unitrode	UC3840	
UC3842	**Micrel**	**MIC38C42** MIC38HC42	**(3685)**
	Motorola	UC3842	
	Samsung	KA3842	
	Unitrode	UC3842	
UC3843	**Micrel**	**MIC38C43** MIC38HC43	**(3685)**
	Motorola	UC3843	
	Unitrode	UC3843	
UC3844	**Micrel**	**MIC38C44** MIC38HC44	**(3685)**
	Motorola	UC3844	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
UC3845	**Micrel**	**MIC38C45** MIC38HC45	**(3685)**
	Motorola	UC3845	
ULN2001	Allegro Micro	ULN2001	
	Linfinity Micro	SG2001	
	National	µA9665	
	Philips	NE5601 ULN2001	
	TI	ULN2001	
ULN2002	Linfinity Micro	SG2002	
	National	µA9666	
	Philips	NE5602 ULN2002	
	TI	ULN2002	
ULN2003	Allegro Micro	ULN2003	
	Linfinity Micro	SG2003	
	National	µA9667	
	Philips	NE5603 ULN2003	
	TI	ULN2003	
ULN2004	Allegro Micro	ULN2004	
	Linfinity Micro	SG2004	
	National	µA9668	
	Philips	NE5604 ULN2004	
	TI	ULN2004	
ULN2064	Allegro Micro	ULN2064	
	Linfinity Micro	SG2064	
	TI	SN75064 ULN2064	
ULN2065	Allegro Micro	ULN2065	
	Linfinity Micro	SG2065	
	TI	SN75065 ULN2065	
ULN2066	Linfinity Micro	SG2066	
	TI	SN75066 ULN2066	
ULN2067	Linfinity Micro	SG2067	
	TI	SN75067 ULN2067	
ULN2068	Allegro Micro	ULN2068	
	Linfinity Micro	SG2068	
	Motorola	ULN2068	
	TI	SN75068 ULN2068	
ULN2069	Allegro Micro	ULN2069	
	Linfinity Micro	SG2069	
	TI	SN75069 ULN2069	
ULN2070	Linfinity Micro	SG2070	
ULN2071	Linfinity Micro	SG2071	
ULN2074	TI	SN75074 ULN2074	
ULN2075	Linfinity Micro	SG2075	
	TI	SN75075 ULN2075	
ULN2076	Linfinity Micro	SG2076	
ULN2077	Linfinity Micro	SG2077	
ULN2801	Allegro Micro	ULN2801	
	Linfinity Micro	SG2801	
	Motorola	ULN2801	
ULN2802	Linfinity Micro	SG2802	
	Motorola	ULN2802	
ULN2803	Allegro Micro	ULN2803	
	Linfinity Micro	SG2803	
	Motorola	ULN2803	
	TI	ULN2803	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ULN2804	Allegro Micro	ULN2804	
	Linfinity Micro	SG2804	
	Motorola	ULN2804	
	TI	ULN2804	
ULQ2001	Linfinity Micro	SG2001	
	National	μA9665	
	Philips	ULN2001	
	TI	ULN2001	
ULQ2002	Linfinity Micro	SG2002	
	National	μA9666	
	Philips	ULN2002	
	TI	ULN2002	
ULQ2003	Linfinity Micro	SG2003	
	Philips	ULN2003	
	TI	ULN2003	
ULQ2004	Linfinity Micro	SG2004	
	National	μA9668	
	Philips	ULN2004	
	TI	ULN2004	
Z80CPU	Krueger	Z80CPU	
Z80CTC	**Krueger**	**Z80CTC**	**(3663)**
Z80DART	**Krueger**	**Z80DART**	**(3663)**
Z80DMA	**Krueger**	**Z80DMA**	**(3663)**
Z80PIO	Krueger	Z80PIO	
Z80SIO/0	Krueger	Z80SIO/0	
Z80SIO/1	Krueger	Z80SIO/1	
Z80SIO/2	Krueger	Z80SIO/2	
Z80SIO/9	Krueger	Z80SIO/9	
Z8001	Zilog	Z08001	
Z8002	Zilog	Z08002	
Z8030	Zilog	Z08030	
Z8036	Zilog	Z0836	
Z8038	Zilog	Z08038	
Z8060	Zilog	Z08060	
◆ Z84C00	Zilog	Z84C00	
Z84C10	Zilog	Z84C10	
Z84C20	Zilog	Z84C20	
Z84C30	Zilog	Z84C30	
Z84C4X	Zilog	Z84C4X	
◆ Z84XX	Zilog	Z0844X	
◆ Z8400	Zilog	Z08400	
◆ Z8410	Zilog	Z08410	
◆ Z8420	Zilog	Z08420	
◆ Z8430	Zilog	Z08430	
Z8530	Zilog	Z08530	
Z8536	Zilog	Z08536	
Z86E11	Zilog	Z08603	
Z8601	Zilog	Z08601	
Z8611	Zilog	Z08611	
Z8671	Zilog	Z08671	
Z8681	Zilog	Z08681	
27C1001	Krueger	27C010	
27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
	Motorola	SN54LS00	
	National	DM54LS00	
		54LS00	
	SGS-Thomson	T54LS00	
	TI	SN54LS00	
54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
		54LS02	
	SGS-Thomson	T54LS02	
	TI	SN54LS02	
54LS03	Motorola	SN54LS03	
	National	DM54LS03	
		54LS03	
	TI	SN54LS03	
54LS04	GoldStar	GD54LS04	
		54LS04	
	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson	T54LS04	
	TI	SN54LS04	
			(Continued)
54LS05	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
		54LS05	
	SGS-Thomson	T54LS05A	
	TI	SN54LS05	
◆ 54LS08	GoldStar	GD54LS08	
	Lansdale	SL54LS08	
	Motorola	SN54LS08	
	National	DM54LS08	
		54LS08	
◆ 54LS08	TI	SN54LS08	
54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
		54LS09	
	SGS-Thomson	T54LS09	
	TI	SN54LS09	
54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	Motorola	SN54LS10	
	National	DM54LS10	
		54LS10	
	SGS-Thomson	T54LS10	
	TI	SN54LS10	
◆ 54LS109	GoldStar	GD54LS109A	
	Lansdale	SL54LS109	
	Motorola	SN54LS109A	
	National	DM54LS109	
		54LS109	
◆ 54LS109	TI	SN54LS109A	
54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	Motorola	SN54LS11	
	National	DM54LS11	
		54LS11	
	SGS-Thomson	T54LS11	
	TI	SN54LS11	
◆ 54LS112	GoldStar	GD54LS112	
	Lansdale	SL54LS112	
	Motorola	SN54LS112A	
	National	54LS112	
	TI	SN54LS112A	
◆ 54LS113	Lansdale	SL54LS113	
	Motorola	SN54LS113A	
	National	54LS113	
54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125	
		SL54LS125A	
	Motorola	SN54LS125A	
	National	DM54LS125A	
		54LS125A	
	TI	SN54LS125A	
54LS126	Lansdale	SL54LS126A	
	Motorola	SN54LS126A	
	National	54LS126	
	TI	SN54LS126A	
54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	
	SGS-Thomson	T54LS132	
	TI	SN54LS132	
◆ 54LS133	Motorola	SN54LS133	
	National	54LS133	
54LS136	Lansdale	SL54LS136	
	Motorola	SN54LS136	
	National	DM54LS136	
		54LS136	
	SGS-Thomson	T54LS136	
	TI	SN54LS136	
54LS138	GoldStar	GD54LS138	
	Motorola	SN54LS138	
	National	DM54LS138	
		54LS138	
	SGS-Thomson	T54LS138	
	TI	SN54LS138	
54LS139	GoldStar	GD54LS139	
	Lansdale	54LS139	
	Motorola	SN54LS139	
	National	DM54LS139	
		54LS139	
			(Continued)
54LS139			(Cont'd)
	SGS-Thomson	T54LS139	
	TI	SN54LS139A	
54LS14	GoldStar	GD54LS14	
	Lansdale	SL54LS14	
	Motorola	SN54LS14	
	National	54LS14	
	SGS-Thomson	T54LS14	
	TI	SN54LS14	
54LS15	GoldStar	GD54LS15	
	Motorola	SN54LS15	
	National	54LS15	
	SGS-Thomson	T54LS15	
	TI	SN54LS15	
54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
		54LS151	
	SGS-Thomson	T54LS151	
	TI	SN54LS151	
◆ 54LS153	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	Motorola	SN54LS153	
	National	DM54LS153	
		54LS152	
		54LS153	
◆ 54LS153	TI	SN54LS153	
54LS155	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	Motorola	SN54LS155	
	National	DM54LS155	
		54LS155	
	SGS-Thomson	T54LS155	
	TI	SN54LS155A	
54LS156	Lansdale	SL54LS156	
	Motorola	SN54LS156	
	National	DM54LS156	
		54LS156	
	SGS-Thomson	T54LS156	
	TI	SN54LS156	
54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	Motorola	SN54LS157	
	National	DM54LS157	
		54LS157	
	SGS-Thomson	T54LS157	
	TI	SN54LS157	
54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	Motorola	SN54LS158	
	National	DM54LS158	
		54LS158	
	SGS-Thomson	T54LS158	
	TI	SN54LS158	
◆ 54LS160	Lansdale	SL54LS160A	
	Motorola	SN54LS160A	
	National	54LS160A	
	TI	SN54LS160A	
◆ 54LS161	GoldStar	GD54LS161A	
	Motorola	SN54LS161A	
	National	DM54LS161A	
		54LS161	
◆ 54LS161	TI	SN54LS161A	
◆ 54LS162	Lansdale	SL54LS162A	
	Motorola	SN54LS162A	
	National	54LS162A	
	TI	SN54LS162A	
◆ 54LS164	GoldStar	GD54LS164	
	Lansdale	SL54LS164	
	Motorola	SN54LS164	
	National	DM54LS164	
		54LS164	
◆ 54LS164	TI	SN54LS164	
54LS170	Lansdale	SL54LS170	
	Motorola	SN54LS170	
	National	54LS170	
	SGS-Thomson	T54LS170	
	TI	SN54LS170	
54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
		54LS174	
			(Continued)
54LS174			(Cont'd)
	SGS-Thomson	T54LS174	
	TI	SN54LS174	
54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
		54LS175	
	SGS-Thomson	T54LS175	
	TI	SN54LS175	
◆ 54LS181	Lansdale	SL54LS181	
	Motorola	SN54LS181	
	National	54LS181	
	TI	SN54LS181	
◆ 54LS190	Motorola	SN54LS190	
	National	DM54LS190	
	TI	SN54LS190	
◆ 54LS191	GoldStar	GD54LS191	
	Lansdale	SL54LS191	
	Motorola	SN54LS191	
	National	DM54LS191	
	TI	SN54LS191	
54LS192	Lansdale	SL54LS192	
	Motorola	SN54LS192	
	National	54LS192	
	SGS-Thomson	T54LS192	
	TI	SN54LS192	
54LS193	GoldStar	GD54LS193	
	Motorola	SN54LS193	
	National	DM54LS193	
		54LS193	
	SGS-Thomson	T54LS193	
	TI	SN54LS193	
54LS195A	GoldStar	GD54LS195A	
	Motorola	SN54LS195A	
	National	54LS195	
	SGS-Thomson	T54LS195A	
	TI	SN54LS195A	
◆ 54LS196	Motorola	SN54LS196	
	TI	SN54LS196	
◆ 54LS197	Lansdale	SL54LS197	
	Motorola	SN54LS197	
	TI	SN54LS197	
54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
		54LS20	
	SGS-Thomson	T54LS20	
	TI	SN54LS20	
◆ 54LS21	GoldStar	GD54LS21	
	Lansdale	SL54LS21	
	Motorola	SN54LS21	
	National	DM54LS21	
		54LS21	
◆ 54LS21	TI	SN54LS21	
54LS22	Motorola	SN54LS22	
	National	54LS22	
	SGS-Thomson	T54LS22	
	TI	SN54LS22	
54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
		54LS240	
	SGS-Thomson	T54LS240	
	TI	SN54LS240	
◆ 54LS251	GoldStar	GD54LS251	
	Lansdale	SL54LS251	
	Motorola	SN54LS251	
	National	DM54LS251	
	TI	SN54LS251	
◆ 54LS253	Lansdale	SL54LS253	
	Motorola	SN54LS253	
	National	DM54LS253	
		54LS253	
◆ 54LS253	TI	SN54LS253	
◆ 54LS257	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
◆ 54LS257	National	DM54LS257B	
		54LS257A	
◆ 54LS257	TI	SN54LS257B	
			(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
54LS258	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson	T54LS258A	
	TI	SN54LS258B	
54LS259	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
		54LS259	
	SGS-Thomson	T54LS259	
	TI	SN54LS259B	
54LS266	Lansdale	SL54LS266	
	Motorola	SN54LS266	
	National	54LS266	
	SGS-Thomson	T54LS266	
	TI	SN54LS266	
54LS27	GoldStar	GD54LS27	
	Motorola	SN54LS27	
	National	DM54LS27	
		54LS27	
	SGS-Thomson	T54LS27	
	TI	SN54LS27	
54LS273	GoldStar	GD54LS273	
	Lansdale	SL54LS273	
	Motorola	SN54LS273	
	National	54LS273	
	Philips	54LS273	
	SGS-Thomson	T54LS273	
	TI	SN54LS273	
54LS279	Motorola	SN54LS279	
	National	DM54LS279	
		54LS279	
	SGS-Thomson	T54LS279	
	TI	SN54LS279A	
54LS280	GoldStar	GD54LS280	
	Motorola	SN54LS280	
	SGS-Thomson	T54LS280	
	TI	SN54LS280	
54LS283	GoldStar	GD54LS283	
	Lansdale	SL54LS283	
	Motorola	SN54LS283	
	National	DM54LS283	
		54LS283	
	TI	SN54LS283	
54LS290	Motorola	SN54LS290	
	TI	SN54LS290	
54LS293	Motorola	SN54LS293	
	SGS-Thomson	T54LS293	
	TI	SN54LS293	
♦ 54LS295A	Lansdale	SL54LS295B	
	TI	SN54LS295B	
54LS298	GoldStar	GD54LS298	
	Lansdale	SL54LS298	
	Motorola	SN54LS298	
	National	54LS298	
	TI	SN54LS298	
54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
	Motorola	SN54LS30	
	National	DM54LS30	
		54LS30	
	SGS-Thomson	T54LS30	
	TI	SN54LS30	
54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
		54LS32	
	SGS-Thomson	T54LS32	
	TI	SN54LS32	
54LS365	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	DM54LS365A	
		54LS365	
	SGS-Thomson	T54LS365A	
	TI	SN54LS365A	
			(Continued)
54LS366	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
		54LS366	
	SGS-Thomson	T54LS366A	
	TI	SN54LS366A	
54LS367	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
		54LS367	
	SGS-Thomson	T54LS367A	
	TI	SN54LS367A	
54LS368	GoldStar	GD54LS368A	
	Motorola	SN54LS368A	
	National	DM54LS368A	
		54LS368	
	SGS-Thomson	T54LS368A	
	TI	SN54LS368A	
54LS37	Lansdale	SL54LS37	
	Motorola	SN54LS37	
	National	DM54LS37	
		54LS37	
	SGS-Thomson	T54LS37	
	TI	SN54LS37	
54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
	Motorola	SN54LS373	
	National	DM54LS373	
	SGS-Thomson	T54LS373	
	TI	SN54LS373	
54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
		54LS374	
	SGS-Thomson	T54LS374	
	TI	SN54LS374	
54LS377	GoldStar	GD54LS377	
	Lansdale	SL54LS377	
	Motorola	SN54LS377	
	National	54LS377	
	SGS-Thomson	T54LS377	
	TI	SN54LS377	
54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
		54LS38	
	SGS-Thomson	T54LS38	
	TI	SN54LS38	
54LS390	GoldStar	GD54LS390	
	Lansdale	SL54LS390	
	Motorola	SN54LS390	
	SGS-Thomson	T54LS390	
	TI	SN54LS390	
54LS40	Lansdale	SL54LS40	
	Motorola	SN54LS40	
	National	54LS40	
	SGS-Thomson	T54LS40	
	TI	SN54LS40	
54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	DM54LS42	
		54LS42	
	SGS-Thomson	T54LS42	
	TI	SN54LS42	
54LS54	Lansdale	SL54LS54	
	Motorola	SN54LS54	
	National	54LS54	
	SGS-Thomson	T54LS54	
	TI	SN54LS54	
54LS55	GoldStar	GD54LS55	
	Motorola	SN54LS55	
	National	54LS55	
	SGS-Thomson	T54LS55	
54LS670	GoldStar	GD54LS670	
	Lansdale	**SL54LS670**	(3674)
			(Continued)
54LS670			(Cont'd)
	Motorola	SN54LS670	
	National	DM54LS670	
		54LS670	
	TI	SN54LS670	
54LS74	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
		54LS74	
	SGS-Thomson	T54LS74A	
	TI	SN54LS74A	
54LS83A	Lansdale	SL54LS83A	
	Motorola	SN54LS83A	
	National	DM54LS83A	
		54LS83A	
	TI	SN54LS83A	
♦ 54LS85	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS848	
		SN54LS85	
♦ 54LS85	National	DM54LS85	
		54LS85	
♦ 54LS85	TI	SN54LS85	
♦ 54LS86	GoldStar	GD54LS86	
	Lansdale	SL54LS86	
	Motorola	SN54LS86	
	National	DM54LS86	
	TI	SN54LS86A	
♦ 54LS90	GoldStar	GD54LS90	
	Lansdale	SL54LS90	
	Motorola	SN54LS90	
	TI	SN54LS90	
♦ 54LS92	GoldStar	GD54LS92	
	Lansdale	SL54LS92	
	Motorola	SN54LS92	
	TI	SN54LS92	
54LS93	GoldStar	GD54LS93	
	Lansdale	SL54LS93	
	Motorola	SN54LS93	
	SGS-Thomson	T54LS93	
	TI	SN54LS93	
♦ 54LS95B	GoldStar	GD54LS95B	
	Lansdale	SL54LS95B	
	Motorola	SN54LS95B	
	National	54LS95B	
	TI	SN54LS95B	
74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	(3674)
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
	TI	SN74LS00	
74LS01	**Lansdale**	**SL74LS01**	(3674)
	Motorola	SN74LS01	
	SGS-Thomson	T74LS01	
	TI	SN74LS01	
74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	(3674)
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
	SGS-Thomson	T74LS02	
	TI	SN74LS02	
74LS03	Motorola	SN74LS03	
	National	DM74LS03	
		74LS03	
	Rochester	74LS03	
	SGS-Thomson	T74LS03A	
	TI	SN74LS03	
74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	(3674)
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
	Rochester	74LS04	
	SGS-Thomson	T74LS04	
	TI	SN74LS04	
74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	(3674)
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
			(Continued)
74LS05			(Cont'd)
	Rochester	74LS05	
	SGS-Thomson	T74LS05	
	TI	SN74LS05	
74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	(3674)
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
	Rochester	74LS08	
	SGS-Thomson	T74LS08	
	TI	SN74LS08	
74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	(3674)
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
	Rochester	74LS09	
	SGS-Thomson	T74LS09	
	TI	SN74LS09	
74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	(3674)
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
	Rochester	74LS10	
	SGS-Thomson	T74LS10	
	TI	SN74LS10	
♦ 74LS109	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	(3674)
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
♦ 74LS109	SGS-Thomson	T74LS109A	
	TI	SN74LS109A	
74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	(3674)
	Motorola	SN74LS11	
	National	DM74LS11	
		74LS11	
	Rochester	74LS11	
	SGS-Thomson	T74LS11	
	TI	SN74LS11	
♦ 74LS112	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	(3674)
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
♦ 74LS112	SGS-Thomson	T74LS112A	
	TI	SN74LS112A	
♦ 74LS113	**Lansdale**	**SL74LS113**	(3674)
	Motorola	SN74LS113A	
	Rochester	74LS113	
	SGS-Thomson	T74LS113A	
	TI	SN74LS113A	
74LS12	Motorola	SN74LS12	
	National	DM74LS12	
		74LS12	
	Rochester	74LS12	
	SGS-Thomson	T74LS12	
	TI	SN74LS12	
74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125**	(3674)
		SL74LS125A	(3674)
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson	T74LS125A	
	TI	SN74LS125A	
74LS126	**Lansdale**	**SL74LS126A**	(3674)
	Motorola	SN74LS126A	
	National	DM74LS126	
		74LS126	
	SGS-Thomson	T74LS126A	
	TI	SN74LS126A	
74LS13	**Lansdale**	**SL74LS13**	(3674)
	Motorola	SN74LS13	
	National	74LS13	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74LS13 (Cont'd)			
	SGS-Thomson	T74LS13	
	TI	SN74LS13	
74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	**(3674)**
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
	SGS-Thomson	T74LS132	
	TI	SN74LS132	
74LS133	Motorola	SN74LS133	
	National	74LS133	
	SGS-Thomson	T74LS133	
74LS136	**Lansdale**	**SL74LS136**	**(3674)**
	Motorola	SN74LS136	
	National	74LS136	
	SGS-Thomson	T74LS136	
	TI	SN74LS136	
74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	**(3674)**
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
	SGS-Thomson	T74LS138	
	TI	SN74LS138	
74LS139	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	**(3674)**
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
	SGS-Thomson	T74LS139	
	TI	SN74LS139A	
74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	**(3674)**
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
	SGS-Thomson	T74LS14	
	TI	SN74LS14	
74LS15	GoldStar	GD74LS15	
	Motorola	SN74LS15	
	National	74LS15	
	SGS-Thomson	T74LS15	
	TI	SN74LS15	
74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	**(3674)**
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
	SGS-Thomson	T74LS151	
	TI	SN74LS151	
74LS152	Rochester	74LS152	
	SGS-Thomson	T74LS152	
74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	**(3674)**
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
	SGS-Thomson	T74LS153	
	TI	SN74LS153	
74LS155	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	**(3674)**
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
	SGS-Thomson	T74LS155	
	TI	SN74LS155A	
74LS156	**Lansdale**	**SL74LS156**	**(3674)**
	Motorola	SN74LS156	
	National	DM74LS156	
		74LS156	
	SGS-Thomson	T74LS156	
	TI	SN74LS156	
74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	**(3674)**
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
74LS157 (Cont'd)			
	SGS-Thomson	T74LS157	
	TI	SN74LS157	
74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	**(3674)**
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
	Rochester	74LS158	
	SGS-Thomson	T74LS158	
	TI	SN74LS158	
♦ 74LS160	**Lansdale**	**SL74LS160A**	**(3674)**
	Motorola	SN74LS160A	
	National	74LS160	
	SGS-Thomson	T74LS160A	
	TI	SN74LS160A	
♦ 74LS161	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	**(3674)**
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
♦ 74LS161	SGS-Thomson	T74LS161A	
	TI	SN74LS161A	
♦ 74LS162	**Lansdale**	**SL74LS162A**	**(3674)**
	Motorola	SN74LS162A	
	National	74LS162	
	SGS-Thomson	T74LS162A	
	TI	SN74LS162A	
♦ 74LS163	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	**(3674)**
	Motorola	SN74LS163A	
	National	DM74LS163A	
		74LS163	
♦ 74LS163	SGS-Thomson	T74LS163A	
	TI	SN74LS163A	
74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	**(3674)**
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
	SGS-Thomson	T74LS164	
	TI	SN74LS164	
74LS166	GoldStar	GD74LS166	
	Motorola	SN74LS166	
	National	DM74LS166	
	SGS-Thomson	T74LS166	
	TI	SN74LS166A	
74LS168	Motorola	SN74LS168	
	SGS-Thomson	T74LS168	
74LS169	**Lansdale**	**SL74LS169A**	**(3674)**
	Motorola	SN74LS169	
	National	DM74LS169A	
		74LS169	
	Rochester	74LS169	
	SGS-Thomson	T74LS169	
	TI	SN74LS169B	
74LS170	Motorola	SN74LS170	
	National	74LS170	
	SGS-Thomson	T74LS170	
	TI	SN74LS170	
74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	**(3674)**
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
	SGS-Thomson	T74LS174	
	TI	SN74LS174	
74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	**(3674)**
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
	SGS-Thomson	T74LS175	
	TI	SN74LS175	
74LS181	Motorola	SN74LS181	
	National	74LS181	
74LS181 (Cont'd)			
	SGS-Thomson	T74LS181	
	TI	SN74LS181	
74LS190	Motorola	SN74LS190	
	National	DM74LS190	
		74LS190	
	SGS-Thomson	T74LS190	
	TI	SN74LS190	
74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	**(3674)**
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
	SGS-Thomson	T74LS191	
	TI	SN74LS191	
74LS192	**Lansdale**	**SL74LS192**	**(3674)**
	Motorola	SN74LS192	
	National	74LS192	
	SGS-Thomson	T74LS192	
	TI	SN74LS192	
74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	**(3674)**
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
	SGS-Thomson	T74LS193	
	TI	SN74LS193	
74LS194	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	**(3674)**
	Motorola	SN74LS194A	
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson	T74LS194A	
	TI	SN74LS194A	
74LS195	GoldStar	GD74LS195A	
	Motorola	SN74LS195A	
	National	DM74LS195A	
	SGS-Thomson	T74LS195A	
	TI	SN74LS195A	
74LS196	Motorola	SN74LS196	
	National	74LS196	
	SGS-Thomson	T74LS196	
	TI	SN74LS196	
74LS197	**Lansdale**	**SL74LS197**	**(3674)**
	Motorola	SN74LS197	
	National	74LS197	
	SGS-Thomson	T74LS197	
	TI	SN74LS197	
74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
	Rochester	74LS20	
	SGS-Thomson	T74LS20	
	TI	SN74LS20	
74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
	Rochester	74LS21	
	SGS-Thomson	T74LS21	
	TI	SN74LS21	
74LS22	Motorola	SN74LS22	
	Rochester	74LS22	
	SGS-Thomson	T74LS22	
	TI	SN74LS219A	
74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	**(3674)**
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
	SGS-Thomson	T74LS240	
	TI	SN74LS240	
74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	**(3674)**
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
74LS241 (Cont'd)			
	SGS-Thomson	T74LS241	
	TI	SN74LS241	
74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	**(3674)**
	Motorola	SN74LS244	
	National	DM74LS244	
		74LS244	
	SGS-Thomson	T74LS244	
	TI	SN74LS244	
74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
	Rochester	74LS245	
	SGS-Thomson	T74LS245	
	TI	SN74LS245	
74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	**(3674)**
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
	Rochester	74LS251	
	SGS-Thomson	T74LS251	
	TI	SN74LS251	
74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
	Rochester	74LS253	
	SGS-Thomson	T74LS253	
	TI	SN74LS253	
74LS256	**Lansdale**	**SL74LS256**	**(3674)**
	Motorola	SN74LS256	
	National	74LS256	
	SGS-Thomson	T74LS256	
74LS257	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson	T74LS257A	
	TI	SN74LS257B	
74LS258	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
		74LS258	
	Rochester	74LS258	
	SGS-Thomson	T74LS258A	
	TI	SN74LS258B	
74LS259	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
	Rochester	74LS259	
	SGS-Thomson	T74LS259	
	TI	SN74LS259B	
74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson	T74LS26	
		T74LS26A	
	TI	SN74LS26	
74LS260	Motorola	SN74LS260	
	National	74LS260	
	SGS-Thomson	T74LS260	
74LS266	**Lansdale**	**SL74LS266**	**(3674)**
	Motorola	SN74LS266	
	National	74LS266	
	SGS-Thomson	T74LS266	
	TI	SN74LS266	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

SGS-THOMSON (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
	Rochester	74LS27	
	SGS-Thomson	T74LS27	
	TI	SN74LS27	
74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	**(3674)**
	Motorola	SN74LS273	
	National	74LS273	
	SGS-Thomson	T74LS273	
	TI	SN74LS273	
74LS279	Motorola	SN74LS279	
	National	DM74LS279	
		74LS279	
	Rochester	74LS279	
	SGS-Thomson	T74LS279	
	TI	SN74LS279A	
74LS28	Motorola	SN74LS28	
	National	74LS28	
	SGS-Thomson	T74LS28	
	TI	SN74LS28	
74LS280	GoldStar	GD74LS280	
	Motorola	SN74LS280	
	SGS-Thomson	T74LS280	
	TI	SN74LS280	
74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	**(3674)**
	Motorola	SN74LS283	
	National	DM74LS283	
		74LS283	
	SGS-Thomson	T74LS283	
	TI	SN74LS283	
◆ 74LS290	Motorola	SN74LS290	
	National	DM74LS290	
		74LS290	
◆ 74LS290	SGS-Thomson	T74LS290	
	TI	SN74LS290	
74LS293	Motorola	SN74LS293	
	National	DM74LS293	
		74LS293	
	SGS-Thomson	T74LS293	
	TI	SN74LS292	
		SN74LS293	
74LS295A	**Lansdale**	**SL74LS295B**	**(3674)**
	SGS-Thomson	T74LS295A	
	TI	SN74LS294	
		SN74LS295B	
74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	**(3674)**
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson	T74LS298	
	TI	SN74LS297	
		SN74LS298	
74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
	Rochester	74LS30	
	SGS-Thomson	T74LS30	
	TI	SN74LS30	
74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson	T74LS32	
	TI	SN74LS31	
		SN74LS32	
74LS33	**Lansdale**	**SL74LS33**	**(3674)**
	Motorola	SN74LS33	
	National	74LS33	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
74LS33			(Cont'd)
	SGS-Thomson	T74LS33	
	TI	SN74LS33	
74LS352	**Lansdale**	**SL74LS352**	**(3674)**
	Motorola	SN74LS352	
	National	DM74LS352	
		74LS352	
	SGS-Thomson	T74LS352	
	TI	SN74LS352	
74LS353	**Lansdale**	**SL74LS353**	**(3674)**
	Motorola	SN74LS353	
	National	74LS353	
	SGS-Thomson	T74LS353	
	TI	SN74LS353	
74LS365A	**Lansdale**	**SL74LS365A**	**(3674)**
	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
	Rochester	74LS365	
	SGS-Thomson	T74LS365A	
	TI	SN74LS365A	
74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	**(3674)**
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
	SGS-Thomson	T74LS366A	
	TI	SN74LS366A	
74LS367A	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A	
		74LS367	
	Rochester	74LS367	
	SGS-Thomson	T74LS367A	
	TI	SN74LS367A	
74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
	Rochester	74LS368	
	SGS-Thomson	T74LS368A	
	TI	SN74LS368A	
74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37	
		74LS37	
	Rochester	74LS37	
	SGS-Thomson	T74LS37	
	TI	SN74LS37	
74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
	Motorola	SN74LS373	
	National	DM74LS373	
		74LS373	
	SGS-Thomson	T74LS373	
	TI	SN74LS373	
74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	DM74LS374	
		74LS374	
	SGS-Thomson	T74LS374	
	TI	SN74LS374	
74LS377	GoldStar	GD74LS377	
	Lansdale	**SL74LS377**	**(3674)**
	Motorola	SN74LS377	
	National	74LS377	
	SGS-Thomson	T74LS377	
	TI	SN74LS377	
74LS378	**Lansdale**	**SL74LS378**	**(3674)**
	Motorola	SN74LS378	
	National	74LS378	
	SGS-Thomson	T74LS378	
	TI	SN74LS378	
74LS379	Motorola	SN74LS379	
	National	74LS379	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74LS379			(Cont'd)
	SGS-Thomson	T74LS379	
	TI	SN74LS379	
74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	
	Rochester	74LS38	
	SGS-Thomson	T74LS38	
	TI	SN74LS38	
74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson	T74LS390	
	TI	SN74LS390	
74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	DM74LS393	
		74LS393	
	SGS-Thomson	T74LS393	
	TI	SN74LS393	
74LS395	GoldStar	GD74LS395	
	Lansdale	**SL74LS395A**	**(3674)**
	Motorola	SN74LS395	
	National	74LS395	
	SGS-Thomson	T74LS395A	
	TI	SN74LS395A	
74LS399	Motorola	SN74LS399	
	SGS-Thomson	T74LS399	
	TI	SN74LS399	
74LS40	Motorola	SN74LS40	
	National	74LS40	
	SGS-Thomson	T74LS40	
	TI	SN74LS40	
74LS42	GoldStar	GD74LS42	
	Motorola	SN74LS42	
	National	DM74LS42	
		74LS42	
	Rochester	74LS42	
	SGS-Thomson	T74LS42	
	TI	SN74LS42	
74LS490	**Lansdale**	**SL74LS490**	**(3674)**
	Motorola	SN74LS490	
	National	74LS490	
	SGS-Thomson	T74LS490	
74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
	TI	SN74LS51	
74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	Motorola	SN74LS54	
	National	74LS54	
	SGS-Thomson	T74LS54	
	TI	SN74LS54	
74LS55	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS541B1	
		T74LS55	
	TI	SN74LS55	
74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	DM74LS670	
		74LS670	
	Rochester	74LS670	
	SGS-Thomson	T74LS670	
	TI	SN74LS670	
74LS74	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	

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Manufacturer Device	Replacement Source	Device	IC Master Page
74LS74			(Cont'd)
	National	DM74LS74	
		74LS74	
	Rochester	74LS74	
	SGS-Thomson	T74LS74A	
	TI	SN74LS74A	
74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A	
		74LS83	
	Rochester	74LS83	
	SGS-Thomson	T74LS83A	
	TI	SN74LS83A	
◆ 74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
◆ 74LS85	National	DM74LS85	
		74LS85	
◆ 74LS85	Rochester	74LS85	
	TI	SN74LS85	
74LS86	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
	Rochester	74LS86	
	SGS-Thomson	T74LS86	
	TI	SN74LS86A	
74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson	T74LS90	
	TI	SN74LS90	
◆ 74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	SGS-Thomson	T74LS92	
	TI	SN74LS92	
74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	T74LS93	
	TI	SN74LS93	
74LS95B	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson	T74LS93B1	
		T74LS95B	
	TI	SN74LS95B	

Sharp Electronics

Manufacturer Device	Replacement Source	Device	IC Master Page
GP1U56	GEC Plessey	SL486	
IR3741	NJR	NJM741	
IR9022	NJR	NJM022	
IR91458	NJR	NJM1458	
IR94558	**NJR**	**NJM4558**	**(3704)**
IR94559	NJR	NJM4559	
LC7363	Sharp	UM91210	
LH008X	Zilog	Z0844X	
LH0080	Krueger	Z80CPU	
	Zilog	Z08400	
LH0081	Krueger	Z80PIO	
	Zilog	Z08420	
LH0082	**Krueger**	**Z80CTC**	**(3663)**
	Zilog	Z08430	
LH0083	**Krueger**	**Z80DMA**	**(3663)**
	Zilog	Z08410	
LH0084	Krueger	Z80SIO/0	
LH0085	Krueger	Z80SIO/1	
LH0086	Krueger	Z80SIO/2	
LH0088	**Krueger**	**Z80DART**	**(3663)**
LH2114	**Krueger**	**2114-200**	**(3663)**
LH21144	**Krueger**	**2114-150**	**(3663)**
		2114-450	**(3663)**
LH21256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Sharp Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LH2164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
LH23126	OKI	MSM38128	
	UMC	UM23C128	
LH23257	OKI	MSM38256	
LH2369	OKI	MSM3864	
	UMC	UM23C64	
LH2464	**Krueger**	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
LH5006	Samsung	KS0061	
LH5008	Samsung	KS0062	
LH5021	Samsung	KS0081	
LH5022	Samsung	KS0081	
LH5025	Samsung	KS0102	
LH5030	Samsung	KS0101	
LH5031	Samsung	KS0101	
LH5036	Samsung	KS0102	
LH5080	Zilog	Z84C00	
LH5081	Zilog	Z84C20	
LH5082	Zilog	Z84C30	
LH5083	Zilog	Z84C10	
LH5084	Zilog	Z84C4X	
LH5101	Harris	MWS5101	
	Intel	2101	
	Philips	PCD5101	
LH511000	Hyundai	HY628100	
LH5114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
LH5114H	AMD	AM9114	
	Harris	MWS5114	
	Intel	2114	
	Philips	PCD5114	
	S-MOS	SRM2114	
	UMC	UM6104	
LH5115	Hyundai	HY6116A	
LH5116	AMD	AM9128	
	Harris	CDM6116	
	Hitachi	HM6116A	
	Hyundai	HY6116	
	Intel	5116	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Mosel-Vitelic	MS6516	
	S-MOS	SRM2016	
		SRM2018	
	SGS-Thomson	MK6116	
	Sony	CXK5816	
	Toshiba	TC5518	
	UMC	UM6116	
LH51256	Fujitsu	MB84256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	OKI	MSM51256	
	Toshiba	TC55258	
LH5160	Mosel-Vitelic	MS6264	
		MS6265	
	Toshiba	TC5563	
LH5164	**Krueger**	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mosel-Vitelic	MS6264	
	Toshiba	TC5588	
	UMC	UM6264	
LH5165	Toshiba	TC5588	
LH5165L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
LH5167	AMD	AM2167	
	Fujitsu	MB81C67	
	Hitachi	HM6267	
	IDT	IDT6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	LogicDev	L7C167	
	Mitsubishi	M5M21C67	
	NEC	µPD4311	
	SGS-Thomson	IMS1403	
LH5167 (Cont'd)			
	UMC	UM6167	
	Vitelic	V61C67	
LH5168	Fujitsu	MB8464	
	Harris	CDM6264	
	Hitachi	HM6264A	
	Hyundai	HY6264	
	Intel	5164	
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264L	
	Motorola	MCM60L64	
	NEC	µPD4464	
	OKI	MSM5165A	
	S-MOS	SRM2264	
	Samsung	KM6264	
	SGS-Thomson	IMS1630	
		MK6264	
	Sony	CXK5864B	
	Toshiba	TC5563	
		TC5564	
		TC5565	
	UMC	UM6264	
LH521002	Cypress	CY7C106	
	EDI	EDI84256	
	Hitachi	HM624256	
	IDT	IDT71028	
	MicronSemi	MT5C1005	
	Mitsubishi	M5M51004	
	Mosel-Vitelic	MS621002	
	Motorola	MCM6228	
		MCM6229A	
	National	NMS1024X4	
	NEC	µPD431004	
	Sony	CXK541000	
LH521007	Cypress	CY7C109	
	EDI	EDI88128	
		EDI88130	
	IDT	IDT71024	
	MicronSemi	MT5C1008	
		MT5C1009	
	Motorola	MCM6226	
		MCM6226A	
	National	NMS1024X8	
	Paradigm	PDM41024	
	Philips	FCB61C1025	
	Sony	CXK581020	
LH521008	Cypress	CY7C109	
	EDI	EDI88128	
		EDI88130	
	IDT	IDT71024	
	MicronSemi	MT5C1008	
		MT5C1009	
	Mosel-Vitelic	MS621008	
	Motorola	MCM6226	
	National	NMS1024X8	
	Paradigm	PDM41024	
	Philips	FCB61C1025	
	Sony	CXK581020	
LH521028	Motorola	MCM67W618	
	National	NMS1024X18	
LH52250AL	Catalyst Semi	CAT71C256	
	EDI	EDI8832	
	Fujitsu	MB84256	
	Harris	CDM62256	
	Hitachi	HM62256	
	Hyundai	HY62C256	
	IDT	IDT71256	
	ISSI	IS61C256	
	Intel	51256SL	
	Mitsubishi	M5M5255	
		M5M5256	
	Mosel-Vitelic	MS62256L	
	Motorola	MCM60L256A	
	NEC	µPD43256	
		µPD43257	
	OKI	MSM51257	
	Panasonic	MN44256	
	Philips	FCB61C257	
	S-MOS	SRM20256	
	Samsung	KM62256	
	SGS-Thomson	MK48256	
	Sony	CXK58257	
	Toshiba	TC55256	
		TC55257	
	UMC	UM62256	
LH52251	Cypress	CY7C197	
	LogicDev	L7C197	
	Mosel-Vitelic	MS62251	
	Motorola	MCM6207	
LH52251A	Mosel-Vitelic	MS62251A	
LH52252	Cypress	CY7C194	
	EDI	EDI8465	
	Fujitsu	MB81C84	
	Hitachi	HM6208	
		HM6708	
	IDT	IDT71258	
	Intel	51258	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Mosel-Vitelic	MS62252	
		V63C71	
	Motorola	MCM6208	
	National	NMS256X4	
	NEC	µPD43254	
	Panasonic	MN44252	
	Paradigm	PDM41258	
	Philips	FCB61C252	
	S-MOS	SRM21256	
	Samsung	KM64257	
	SGS-Thomson	IMS1820	
	Sony	CXK54256	
	Toshiba	TC55464	
LH52252A	Mosel-Vitelic	MS62252A	
	Motorola	MCM6208	
LH52252B	Toshiba	TC55B465	
LH52253	Cypress	CY7C195	
	EDI	EDI8466	
	Hitachi	HM6709	
	IDT	IDT61298	
	MicronSemi	MT5C2565	
	Motorola	MCM6209	
	Philips	FCB61C253	
	Toshiba	TC55B464	
		TC55465	
LH52253A	Mosel-Vitelic	MS62253A	
LH52254	Cypress	CY7C199	
LH52256	Hyundai	HY62256A	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	OKI	MSM51257	
	Toshiba	TC55257	
	UMC	UM62256	
LH52257	Toshiba	TC55328	
LH52258	Cypress	CY7C199	
	EDI	EDI8834	
	Fujitsu	MB5298	
	Hitachi	HM62832	
	Hyundai	HY63C256	
	ISSI	IS61C256	
	Intel	51256	
	Krueger	62256-025	
		62256-030	
		62256-035	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256	
		MS62256A	
	Motorola	MCM6206	
	National	NMS256X8	
	Panasonic	MN44251	
	Paradigm	PDM41256	
	Samsung	KM68257	
	Sony	CXK58258	
	Toshiba	TC55B328	
		TC55328	
	VLSI Tech	VT62832	
LH52259	Cypress	CY7C188	
	Toshiba	TC55329	
LH5261	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	Toshiba	TC5561	
		TC5562	
LH5262A	Toshiba	TC55416	
LH5265	**Krueger**	**6288-25**	**(3663)**
		6288-35	
		6288-45	
LH5267	Krueger	6289-25	
		6289-35	
		6289-45	
	Mosel-Vitelic	MS6267A	
LH5267A	Toshiba	TC55417	
LH530800	OKI	MSM531001A	
	Samsung	KM23C1010	
LH530900	Samsung	KM23C1011	
LH531000	OKI	MSM531000A	
	Samsung	KM23C1000	
	UMC	UM23C1024	
LH531000A	GoldStar	GM231000	
LH5316000	Samsung	KM23C16000	
LH531601	Toshiba	TC5316200	
LH532000	Samsung	KM23C2100	
	UMC	UM23C2000	
LH532100	Samsung	KM23C2000	
	UMC	UM23C2001	
LH532300	Samsung	KM23C2000	
LH532500	Samsung	KM23C2100	
LH53257	OKI	MSM53256	
	UMC	UM23C256	
LH534	Hitachi	HN62304	
	NEC	µPD23C4001	
	Samsung	KM43C4000	
	Toshiba	TC534000	
LH534000	GoldStar	GM23C4100	
	Samsung	KM23C4100	
	Toshiba	TC534200	
	UMC	UM23C4000	
LH534100	Samsung	KM23C4000	
LH534200	Samsung	KM23C4001	
LH534300	GoldStar	GM23C4000	
	OKI	MSM534001A	
	Samsung	KM23C4000	
LH534400	Samsung	KM23C4001	
LH534500	OKI	MSM534002A	
	Samsung	KM23C4100	
LH53513	UMC	UM23C512	
LH5375	Hitachi	HN62401	
	NEC	µPD23C16000	
	Samsung	KM23C16000	
	Toshiba	TC5316200	
LH5380	Hitachi	HN62408	
	NEC	µPD23C8000	
	Samsung	KM23C8100	
	Toshiba	TC538200	
LH538000	OKI	MSM538002B	
	Samsung	KM23C8100	
LH5381	Hitachi	HN62308	
	NEC	µPD23C8001	
	Samsung	KM23C8000	
LH538100	Samsung	KM23C8000	
	Toshiba	TC538000	
		TC538200	
LH538200	Samsung	KM23C8000	
LH540215	MicronSemi	MT53C51218	
LH540225	MicronSemi	MT53C1K18	
LH5481	Cypress	CY7C408	
		CY7C408A	
LH5491	Cypress	CY7C409	
		CY7C409A	
LH5492	Samsung	KM75C104	
LH5493	Mosel-Vitelic	MS76493	
	National	NMFP5493	
LH5494	Mosel-Vitelic	MS76494	
	National	NMFS5494	
LH5495	IDT	IDT7200	
	Mosel-Vitelic	7200	
LH5496	Cypress	CY7C420	
		CY7C421	
		CY7C421A	
	IDT	IDT7201	
	MicronSemi	MT52C9005	
	Mosel-Vitelic	MS7201	
		7201A	
	National	NMF512X9	
	Quality Semi	QS7201	
	Samsung	KM75C01	
	SGS-Thomson	MK45H01	
LH5497	AMD	AM7202	
		AM7202A	
	Cypress	CY7C424	
		CY7C425	
		CY7C425A	
	IDT	IDT7202	
	MicronSemi	MT52C9010	
	Mosel-Vitelic	MS7202	
		7202A	
	National	NMF1024X9	
	Quality Semi	QS7202	
	Samsung	KM75C02	
	SGS-Thomson	MS45H02	
LH5498	AMD	AM7203	
		AM7203A	
	Cypress	CY7C428	
		CY7C429	
		CY7C429A	
	IDT	IDT7203	
	MicronSemi	MT52C9020	
	Mosel-Vitelic	MS7203	
		7203	
	National	NMF2048X9	
	Quality Semi	QS7203	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Sharp Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LH5498			(Cont'd)
	Samsung	KM75C03	
	SGS-Thomson	MK45H03	
LH5498A	Quality Semi	QS7203	
LH5499	AMD	AM7204	
		AM7204A	
	Cypress	CY7C432	
		CY7C433	
		CY7C433A	
	IDT	IDT7204	
	MicronSemi	MT52C4K9	
	Mosel-Vitelic	MS7204	
	National	NMF4096X9	
	Quality Semi	QS7204	
	Samsung	KM75C04	
LH5499A	Quality Semi	QS7204	
LH570001	TI	TMS27C010A	
		TMS27PC010A	
LH571000	Krueger	27C010	
	TI	TMS27C010A	
		TMS27PC010A	
	Toshiba	TC541000	
		TC571000	
LH571001	Toshiba	TC541001	
		TC571001	
LH57126	TI	TMS27C128	
		TMS27PC128	
LH57127	TI	TMS27C128	
		TMS27PC128	
	Waferscale	WS57C51	
LH57128	Krueger	27C128-200	
		27C128-250	
	TI	TMS27C128	
		TMS27PC128	
LH57191	Waferscale	WS57C191	
LH57254	Cypress	CY7C274	
	TI	TMS27C256	
		TMS27PC256	
LH57255	Cypress	CY7C274	
	Toshiba	TC57256	
LH57256	Cypress	CY7C274	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	TI	TMS27C256	
		TMS27PC256	
	Toshiba	TC54256	
	Waferscale	WS57C256	
LH5749	Cypress	CY7C263	
		CY7C264	
	Waferscale	WS57C49	
LH5762	Cypress	CY7C266	
LH5763	Cypress	CY7C266	
	Waferscale	WS57C64	
LH5764	Cypress	CY7C266	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
LH5826	Samsung	KS0102	
LH611000	Krueger	511000-100	
		511000-70	
		511000-80	
LH6164D	Hyundai	HY6264A	
LH64256	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	TI	TMS44C256	
LH64258	MicronSemi	MT4C4258	
LH64270	TI	TMS44C256	
LI3135	Samsung	KS6125	
		KS6325	
LI3140	Samsung	KS6326	
LR4087	Samsung	KS5809	
		KS58528	
		KS58529	
		KS58530	
		KS58531	
		KS58532	
		KS58533	
		KS58534	
		KS58535	
		KS58536	
		KS58537	
		KS58538	
		KS58539	
	UMC	UM95087	
LR4089	Samsung	KS5808	
	UMC	UM95089	
LR40992	American Micro	S2560	
	Samsung	KS5805	
	UMC	UM9151	
LR40993	Samsung	KS5805	
LR4173	UMC	UM91611	
LR4803	Samsung	KS5822	
		KS58500	
	UMC	UM91261	
LR4806	UMC	UM91270	
LR48081	Samsung	KS58000	
		KS58001	
		KS58002	
		KS58003	
		KS5819	
	Sharp	UM91210	
LR48082	Samsung	KS58004	
		KS58005	
		KS58006	
		KS58007	
		KS5820	
♦ LR74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
	Toshiba	**TC74HC00A**	**(3836)**
♦ LR74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
	Toshiba	**TC74HC02A**	**(3836)**
♦ LR74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
	Toshiba	**TC74HC03A**	**(3836)**
♦ LR74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
	Toshiba	**TC74HC04A**	**(3836)**
♦ LR74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
	Toshiba	**TC74HC08A**	**(3836)**
♦ LR74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
	Toshiba	**TC74HC10A**	**(3836)**
♦ LR74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
	Toshiba	**TC74HC107A**	**(3836)**
♦ LR74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
	Toshiba	**TC74HC109A**	**(3836)**
♦ LR74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
	Toshiba	**TC74HC11A**	**(3836)**
♦ LR74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
	Toshiba	**TC74HC112A**	**(3836)**
♦ LR74HC113	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	National	MM74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
	Toshiba	**TC74HC113A**	**(3836)**
♦ LR74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
♦ LR74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
♦ LR74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
♦ LR74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
♦ LR74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
♦ LR74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
♦ LR74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
♦ LR74HC151			(Cont'd)
	National	MM74HC149	
		MM74HC151	
♦ LR74HC151	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
♦ LR74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
♦ LR74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
♦ LR74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
♦ LR74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
♦ LR74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
♦ LR74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
♦ LR74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
♦ LR74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Sharp Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ LR74HC164			(Cont'd)
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
◆ LR74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
◆ LR74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
◆ LR74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
◆ LR74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
◆ LR74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
◆ LR74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
◆ LR74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
◆ LR74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240 M74HC240-1	
◆ LR74HC240	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ LR74HC240			(Cont'd)
	TI	SN74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
◆ LR74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	SGS-Thomson	M74HC241 M74HC241HV	
◆ LR74HC241	TI	SN74HC241	
	Toshiba	**TC74HC241A**	**(3836)**
◆ LR74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
◆ LR74HC243	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	National	MM74HC243	
	Philips	74HC243	
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
	Toshiba	**TC74HC243A**	**(3836)**
◆ LR74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244 M74HC244-1	
◆ LR74HC244	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
	Toshiba	**TC74HC244A**	**(3836)**
◆ LR74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245 M74HC245-1	
◆ LR74HC245	Motorola	MC74HC245A	
	National	MM74HC245 MM74HC245A	
◆ LR74HC245	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
	Toshiba	**TC74HC245A**	**(3836)**
◆ LR74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
	Toshiba	**TC74HC251A**	**(3836)**
◆ LR74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
◆ LR74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
	Toshiba	**TC74HC257A**	**(3836)**
◆ LR74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ LR74HC259			(Cont'd)
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
	Toshiba	**TC74HC259A**	**(3836)**
◆ LR74HC266	Mitsubishi	M74HC266 M74HC266A	
◆ LR74HC266	National	MM74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
	Toshiba	**TC74HC266A**	**(3836)**
◆ LR74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
	Toshiba	**TC74HC27A**	**(3836)**
◆ LR74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273 M74HC273-1	
◆ LR74HC273	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
	Toshiba	**TC74HC273A**	**(3836)**
◆ LR74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
	Toshiba	**TC74HC280A**	**(3836)**
◆ LR74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
	Toshiba	**TC74HC299A**	**(3836)**
◆ LR74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
	Toshiba	**TC74HC30A**	**(3836)**
◆ LR74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
	Toshiba	**TC74HC32A**	**(3836)**
◆ LR74HC354	Harris	CD74HC354	
	Motorola	MC74HC354	
	National	MM74HC354	
	Philips	74HC354	
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
	Toshiba	**TC74HC354A**	**(3836)**
◆ LR74HC356	Harris	CD74HC356	
	National	MM74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ LR74HC356			(Cont'd)
	TI	SN74HC356	
	Toshiba	**TC74HC356A**	**(3836)**
◆ LR74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
	Toshiba	**TC74HC365A**	**(3836)**
◆ LR74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
	Toshiba	**TC74HC366A**	**(3836)**
◆ LR74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
	Toshiba	**TC74HC368A**	**(3836)**
◆ LR74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
	Toshiba	**TC74HC373A**	**(3836)**
◆ LR74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
	Toshiba	**TC74HC374A**	**(3836)**
◆ LR74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
	Toshiba	**TC74HC390A**	**(3836)**
◆ LR74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
	Toshiba	**TC74HC393A**	**(3836)**
◆ LR74HC4002	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
	Toshiba	**TC74HC4002A**	**(3836)**
◆ LR74HC4024	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Sharp Electronics (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
◆ LR74HC4024			(Cont'd)
	TI	SN74HC4024	
	Toshiba	**TC74HC4024A**	**(3836)**
◆ LR74HC4075	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
	Toshiba	**TC74HC4075A**	**(3836)**
◆ LR74HC4078	Mitsubishi	M74HC4078	
	Motorola	MC74HC4078	
	National	MM74HC4078	
	SGS-Thomson	M74HC4078	
	TI	SN74HC4078A	
	Toshiba	**TC74HC4078A**	**(3836)**
◆ LR74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
	Toshiba	**TC74HC42A**	**(3836)**
◆ LR74HC4511	Harris	CD74HC4511	
	Motorola	MC74HC4511	
	National	MM74HC4511	
	Philips	74HC4511	
	SGS-Thomson	M74HC4511	
	Toshiba	**TC74HC4511A**	**(3836)**
◆ LR74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
◆ LR74HC4543	Harris	CD74HC4543	
	National	MM74HC4543	
	Philips	74HC4543	
	SGS-Thomson	M74HC4543	
	Toshiba	TC74HC4543A	
◆ LR74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
◆ LR74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
◆ LR74HC533	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
◆ LR74HC533	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
◆ LR74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
◆ LR74HC534	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
◆ LR74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
			(Continued)
◆ LR74HC541			(Cont'd)
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
◆ LR74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555	
		74HC563	
◆ LR74HC563	SGS-Thomson	M74HC563	
	TI	SN74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
◆ LR74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
◆ LR74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
◆ LR74HC58	GoldStar	GD74HC58	
	Motorola	MC74HC58	
	National	MM74HC58	
◆ LR74HC595	Mitsubishi	M74HC595	
	Motorola	MC74HC595A	
	National	MM74HC595	
	SGS-Thomson	M74HC595	
	TI	SN74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
◆ LR74HC597	Harris	CD74HC597	
	Motorola	MC74HC597	
	National	MM74HC597	
	Philips	74HC597	
	SGS-Thomson	M74HC597	
	Toshiba	TC74HC597A	
◆ LR74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
◆ LR74HC640	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
◆ LR74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
◆ LR74HC643	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
	Toshiba	TC74HC643A	
◆ LR74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
◆ LR74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
◆ LR74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
			(Continued)
◆ LR74HC75			(Cont'd)
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
◆ LR74HC76	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	National	MM74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
◆ LR74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
◆ LR74HC85	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
◆ LR74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
LR90993	UMC	UM9151	
LU800	Zilog	Z86C11	
MK4832	Mosel-Vitelic	MS62256	
PC354	Toshiba	TLP120	
PC355	Toshiba	TLP127	
PC356	Toshiba	TLP124	
PC357	Toshiba	TLP121	
PC4N25	Toshiba	4N25	
PC4N26	Toshiba	4N26	
PC4N27	Toshiba	4N27	
PC4N28	Toshiba	4N28	
PC4N29	Toshiba	4N29	
PC4N30	Toshiba	4N30	
PC4N32	Toshiba	4N32	
PC4N33	Toshiba	4N33	
PC4N35	Toshiba	4N35	
PC4N36	Toshiba	4N36	
PC4N37	Toshiba	4N37	
PC702	Toshiba	TLP631	
PC703	Toshiba	TLP631	
PC713	Toshiba	TLP631	
PC714	Toshiba	TLP632	
PC723	Toshiba	TLP531	
PC725	Toshiba	TLP371	
PC733	Toshiba	TLP630	
PC733H	Toshiba	TLP630	
PC810	Toshiba	TLP621	
PC813	Toshiba	TLP626	
PC814	Toshiba	TLP620	
PC816	Toshiba	TLP321	
PC817	Toshiba	TLP621	
PC823	Toshiba	TLP626-2	
PC824	Toshiba	TLP620-2	
PC826	Toshiba	TLP321-2	
PC827	Toshiba	TLP621-2	
PC837	Toshiba	TLP621-3	
PC843	Toshiba	TLP626-4	
PC844	Toshiba	TLP620-4	
PC846	Toshiba	TLP321-4	
PC847	Toshiba	TLP621-4	
PC910	Toshiba	6N137	
SH5762	Waferscale	WS57C49	
S11MD3	Toshiba	TLP560G	
S11MD3H	Toshiba	TLP560J	
S12MD1	Toshiba	TLP541G	
S13MD1	Toshiba	TLP541G	
S21MD3	Toshiba	TLP560J	
S21MD4	Toshiba	TLP561J	
S22MD1	Toshiba	TLP545J	
UM91210	OKI	UM91210	
	Sanyo	LC7360	
	Sharp	LC7363	
		LR48081	
ZH0087	Krueger	Z80SIO/9	

Siemens

Manufacturer Device	Replacement Source	Device	IC Master Page
HYB11000	Mosel-Vitelic	V53C100	
			(Continued)
HYB41C464	Hyundai	HY53C464	
HYB4116	Krueger	4116-120	
		4116-150	
		4116-200	
◆ HYB4116	AMD	AM9016	
HYB41256	Fujitsu	MB81256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mitsubishi	M5M4256	
	NEC	µPD41256	
	Toshiba	TMM41256	
HYB41257	Mosel-Vitelic	V53C256	
◆ HYB41257	Fujitsu	MB81257	
	Mitsubishi	M5M4257	
	NEC	µPD41257	
	Toshiba	TMM41257	
HYB4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
◆ HYB4164	AMD	AM9065	
	Fujitsu	MB8264	
	Intel	2164	
	Mitsubishi	M5K4164	
	NEC	µPD4164	
	Toshiba	TMM4164	
HYB511000	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M4C1000	
	Mosel-Vitelic	V53C100B	
	NEC	µPD421000	
	Toshiba	TC511000	
		TC511000B	
HYB511000A	Hyundai	HY531000	
HYB511002	MicronSemi	MT4C1026	
	TI	TMS4C1027	
	Toshiba	TC511002	
◆ HYB511002	Mitsubishi	M5M4C1002	
	Toshiba	TC511002	
HYB5116100	MicronSemi	MT4C16MX1	
HYB5116400	MicronSemi	MT4C4M4X1	
HYB514100	Hitachi	HM514100	
	Hyundai	HY514100	
	MicronSemi	MT4C1004	
	Mosel-Vitelic	V53C400	
	Motorola	MCM54100	
		MCM54100A	
	NEC	µPD424100	
	TI	TMS44100	
	Toshiba	TC514100	
		TMM514100	
HYB514256	Hitachi	HM514256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C1024	
		MT4C4256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	Motorola	MCM514256	
		MCM514256A	
	TI	TMS44C256	
	Toshiba	TMM514256	
HYB514256A	Hyundai	HY534256	
HYB514258	MicronSemi	MT4C4258	
HYB514400	Hitachi	HM514400	
	Hyundai	HY514400	
	MicronSemi	MT4C4001	
		MT4C4004	
	Mosel-Vitelic	V53C404	
	Motorola	MCM54400	
		MCM54400A	
	NEC	µPD424400	
	TI	TMS44400	
		TMS44410	
	Toshiba	TC514400	
		TMM514400	
HYB5144002	MicronSemi	MT4C4003	
HYM362020	MicronSemi	MT24D236	
HYM91000	MicronSemi	MT9D19	
HYM910005	Motorola	MCM91000	
		MCM91000A	
	NEC	MC421000A9	
	TI	TM024EAD9	
		TM124EAD9C	
HYM940005	NEC	MC424100A9	
	TI	TM4100EBD9	
H11AA1	Toshiba	TLP630	
H11C4	Toshiba	TLP541G	
			(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Siemens (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
H11C5	Toshiba	TLP541G	
H11C6	Toshiba	TLP541G	
ILCT6	Toshiba	TLP504A	
ILD1	Toshiba	TLP504A	
ILQ1	Toshiba	TLP504A-2	
IL1	Toshiba	TLP631	
IL250	Toshiba	TLP630	
IL251	Toshiba	TLP630	
IL30	Toshiba	TLP571	
IL400	Toshiba	TLP541G	
IL410	Toshiba	TLP3062	
IL420	Toshiba	TLP3052	
IL5	Toshiba	TLP631	
PEB2055	AMD	AM2055	
PEB2060	GEC Plessey	MV3000	
PEB2075	AMD	AM2075	
PEB2085	AMD	AM2085	
PEB2095	AMD	AM2095	
PEB20950	AMD	AM20950	
PEB2110	AMD	AM2110	
PEB2160	AMD	AM2160	
R80186	AMD	R80186	
SABC501-L	Intel	80C32	
	Matra-Harris	80C32	
	Philips	SCC80C32B	
SABC501-1R	Intel	P80C52BH	
	Matra-Harris	80C52	
	Philips	SCC80C52B	
SABR3000A	IDT	R3000A	
	LSI Logic	R3000A	
	NEC	R3000A	
	Performance	R3000A	
SABR3010A	IDT	R3010A	
	LSI Logic	R3010A	
	NEC	R3010A	
	Performance	R3010A	
SABR3051	IDT	IDT79R3051	
SABR3052	IDT	IDT79R3051	
SABR3500	IDT	R3500	
SABR4000	IDT	R4000	
	LSI Logic	R4000	
	NEC	R4000	
	Performance	R4000	
	Toshiba	R4000	
SAB1797	SMC	FDC9797	
SAB2793	VLSI Tech	VL2793	
	Western	WD2793A-02	
SAB2797	VLSI Tech	VL2797	
	Western	WD2797A02	
SAB7201A	NEC	µPD7201A	
SAB80C31	AMD	P80C31	
	Fujitsu	MBL80C31	
	Intel	P80C31	
	OKI	MSM80C31	
	Philips	**SCC80C31**	(3707)
		SC80C31B	(3707)
♦ SAB80C32	Intel	P80C32	
	Matra-Harris	80C32	
	Philips	SCC80C32	
SAB80C51	AMD	P80C51	
	Fujitsu	MBL80C51	
	Intel	P80C51	
	OKI	MSM80C15	
	Philips	**SCC80C51**	(3707)
SAB80C52	Intel	P80C52	
	Matra-Harris	80C32	
	Philips	SCC80C52	
SAB80186	AMD	A80186	
		80186	
	Intel	R80186	
	Krueger	80186	
	OKI	MBL80186	
SAB80188	AMD	R80188	
♦ SAB80188	AMD	R80188	
	Fujitsu	MBL80188	
	Intel	R80188	
SAB80286	AMD	N80L286-8	
		R80286-12	
		R80286-8	
		80286	
	Fujitsu	MBL80286	
	Intel	R80286	
	Krueger	80286	
SAB80286-10	AMD	N80L286-10	
		R80286-10	
SAB80286-12	AMD	N80L286-12	
SAB80286-16	AMD	N80L286-16	
		R80286-16	
SAB8031	AMD	P8031	
	Fujitsu	MBL8031	
	Intel	N8031	
		P8031	
	Krueger	8031	
	Philips	SCN8031	
SAB8031A	Philips	SCN8031H	
SAB8032	Intel	N8032	
		P8032	
♦ SAB8032	Intel	P8032A	
	Philips	SCN8032A	
SAB8032A	Philips	SCN8032H	
SAB8051	Fujitsu	MBL8051	
	Intel	N8051	
		P8051	
	Philips	SCN8051	
SAB8051A	Fujitsu	MBL8051A	
	Intel	P8051A	
	Philips	SCN8051A	
		SCN8051H	
♦ SAB80513	Intel	P83C51	
	Matra-Harris	83C154	
	OKI	MSM83C154	
SAB80515	AMD	AM80515	
SAB8052	Intel	D8052	
		N8052	
		P8052	
	Philips	SCN8052	
SAB80535	AMD	AM80535	
SAB8085A	Krueger	8085A	
SAB8086	Krueger	8086	
SAB8088	Intel	P8088	
	Krueger	8088	
	NEC	µPD8088	
	OKI	MBL8088	
SAB82258	Intel	R82258	
SAB82284	AMD	82284	
	Fujitsu	MBL82284	
	Intel	P82284	
SAB82288	AMD	P82C288	
	Fujitsu	MBL82288	
	Intel	P822888	
SAB8237A	AMD	P8237A	
	Chips&Tech	TMP8237	
	Intel	P8237A	
	NEC	µPD8237A	
SAB82520	AMD	AM82520	
SAB82525	AMD	AM82525	
SAB8259A	AMD	P8259A	
	Chips&Tech	TMP8259A	
	Fujitsu	MBL8259A	
	Intel	P8259A	
	Krueger	8259	
	NEC	µPD8259A	
	Toshiba	M5L8259A	
SAB8284	AMD	D8284A	
	Fujitsu	MBL8284A	
	Intel	P8284A	
	NEC	µPB8284A	
	Toshiba	M5L8284	
SAB8288A	AMD	D8288	
	Fujitsu	MBL8288	
	Intel	P8288	
	NEC	µPB8288	
	Toshiba	M5L8288	
SDA2001	GEC Plessey	SP8755	
SDA2101	GEC Plessey	SP4632	
SDA2208	GEC Plessey	MV500	
SDA2211	GEC Plessey	SP4731	
SDA3202	GEC Plessey	SP5004	
		SP5005	
SDA3203	GEC Plessey	SP5000	
SDA3302	GEC Plessey	SP5510	
SDA4121	GEC Plessey	SP4666	
SDA5200	GEC Plessey	SD9756	
		SP9758	
	MicroNet	MN5904	
		MN5905	
SDA5231	GEC Plessey	MV1815	
SDA5243	GEC Plessey	MV1815	
SDA5645	GEC Plessey	MV1815	
SDA8010	GEC Plessey	SP97508	
SDA9231	GEC Plessey	MV1815	
SDA9243	GEC Plessey	MV1815	
SD4040	GEC Plessey	SP4541	
SD436	GEC Plessey	SP8755	
TBA222	SGS-Thomson	µA741	
TBB200	GEC Plessey	NJ88C33	
TBB741	SGS-Thomson	µA741	
TCA365	Allegro Micro	ULN3751	
	National	LH0101	
TCA520	Harris	CA5130	
TCA971	**Harris**	**CA3046**	(3637)
		CA3146	
TCA991	**Harris**	**CA3046**	(3637)
		CA3146	
TDA5664	GEC Plessey	SL5065	
4N25	Toshiba	4N25	
4N26	Toshiba	4N26	
4N27	Toshiba	4N27	
4N28	Toshiba	4N28	
4N32	Toshiba	4N32	
4N33	Toshiba	4N33	
4N35	Toshiba	4N35	
4N36	Toshiba	4N36	
4N37	Toshiba	4N37	
6N135	Toshiba	6N135	
6N136	Toshiba	6N136	
6N138	Toshiba	6N138	
6N139	Toshiba	6N139	
8052B	Intel	P8052AH	
	Philips	SCN8052AH	

Sierra Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
SC11270	Teltone	M8870	
SC11271	Teltone	M8870	
SC11401	**Harris**	**HI1171**	(3639)
	Universal	USC1850	
		USC1852	
SC11402	**Harris**	**HI1171**	(3639)
	Universal	USC1850	
		USC1852	
SC11403	Universal	USC1850	
		USC1852	
SC11404	Universal	USC1850	
		USC1852	
SC11456	Universal	USC1843	
SC11457	Universal	USC1863	
SC11478	Raytheon	TMC0478	
SC11488	Raytheon	TMC11488	
SC22002	Samsung	KM93C07	
SC22011	**Catalyst Semi**	**CAT93C46**	(3565)
	Samsung	KM93C46	

Signal Processing Technologies

Manufacturer Device	Replacement Source	Device	IC Master Page
HADC574	AD	AD574	
	Burr-Brown	ADC574	
		ADS574	
	Harris	HI574	
	Sipex	HS574	
HADC574A	MicroNet	MN574A	
HADC574Z	**AD**	**AD574A**	(3510)
	Burr-Brown	ADC574A	
	Harris	HI1574A	
	Maxim	MX574A	
HADC674	AD	AD674	
	Burr-Brown	ADC674	
	Harris	HI674	
	Sipex	SP674	
HADC674A	MicroNet	MN674	
HADC674Z	AD	AD674A	
	Burr-Brown	ADC674A	
	Harris	HI674A	
	Maxim	MX674A	
♦ HADC7541	MicroPwr	MP7623	
♦ HADC77100	Sony	CX20116	
HADC774	Burr-Brown	ADS774	
HCMP96850	AMD	AM6685	
	AD	AD9685	
	GEC Plessey	SP9685	
♦ HCMP96870	AMD	AM6687	
	AD	AD9687	
		96687	
♦ HCMP96870	GEC Plessey	SP9687	
HDAC10180	IDT	IDT1018	
	TRWLSI	TDC1018	
HDAC574	MicroPwr	MP574	
♦ HDAC745	MicroPwr	MP7545	
HDAC7541	MicroPwr	MP7541	
♦ HDAC7541	AD	AD7541	
HDAC7542	MicroPwr	MP7542	
♦ HDAC7542	AD	AD7542	
		PM7542	
♦ HDAC7542	MicroPwr	MP7542	
HDAC7542A	**AD**	**AD7542A**	(3517)
	MicroPwr	MP7542	
HDAC7543	AD	AD7543	
		PM7543	
	MicroPwr	MP7543	
HDAC7543A	**AD**	**AD7543A**	(3517)
	MicroPwr	MP7543	
HDAC7545	MicroPwr	MP7545	
♦ HDAC7545	AD	AD7545	
		PM7545	
♦ HDAC7545	MicroPwr	MP7545	
♦ HDAC97000	AD	AD9700	
SPT116	National	LM2931	
		LM2931A	
		LM2936	
	Seiko Instr	S812	
		S813	
SPT1175	**Harris**	**HI1175**	(3639)
		HI1176	(3639)
	Sony	CXD1175	
	TRWLSI	TMC1175M7C20	
SPT7710	Sony	CXA1396	
		CX20116	
SPT774	**AD**	**AD1674**	(3509)
		AD774	
	Burr-Brown	ADC774	
	Harris	HI1774	
	Maxim	MX774	
DS8830	National	DS8830	
27C256	TI	TMS27PC256	

Silicon Connections

Manufacturer Device	Replacement Source	Device	IC Master Page
SC5100	Fujitsu	MBM101C500	
	Hitachi	HM101500	
SC5104	Fujitsu	MBM101C504	
	Hitachi	HM101504	
SC5200	Hitachi	HM10150	
SC5204	Hitachi	HM101514	

Silicon Systems

Manufacturer Device	Replacement Source	Device	IC Master Page
SSID5321	Exar	XR532	
SSI1203	Waferscale	WS57C49	
SSI32D5362A	Hitachi	HD153014	
SSI32D5371	Hitachi	HD153014	
SSI32H101A	Cherry Semi	CS101A	
SSI32H116	Cherry Semi	CS116	
SSI32H569	Hitachi	HA13490	
SSI32M595	Hitachi	HA13481S	
SSI32P4720	Hitachi	HD153021	
SSI32P541	Exar	XR541	
	MicroLinear	ML541	
		ML541C	
SSI32P541A	MicroLinear	ML4042C	
SSI32P541B	MicroLinear	ML4042C	
SSI32R117	Cherry Semi	CS117	
	Exar	XR117	
	MicroLinear	ML117	
SSI32R117-2	MicroLinear	ML117-2C	
SSI32R117-4	MicroLinear	ML117-4C	
SSI32R117-6	MicroLinear	ML117-6C	
SSI32R117R-2	MicroLinear	ML117R-2C	
SSI32R117R-4	MicroLinear	ML117R-4C	
SSI32R117R-6	MicroLinear	ML117R-6C	
SSI32R1200-2	Hitachi	HA166024	
SSI32R1200-4	Hitachi	HA166025	
SSI32R1200R-2	Hitachi	HA166044	
SSI32R1200R-4	Hitachi	HA166045	
SSI32R4610-2	Hitachi	HA166032	
SSI32R4610-4	Hitachi	HA166034	
SSI32R4610R-2	Hitachi	HA166032	
SSI32R4610R-4	Hitachi	HA166034	
SSI32R501	Exar	XR501	
	MicroLinear	ML501	
SSI32R501-4	Hitachi	HA166008	
SSI32R501-6	MicroLinear	ML501-6C	
SSI32R501-8	MicroLinear	ML501-8C	
SSI32R501R-6	MicroLinear	ML501R-6C	
SSI32R501R-8	MicroLinear	ML501R-8C	
SSI32R510A	Cherry Semi	CS510A	
SSI32R511	Cherry Semi	CS511	
	Exar	XR511	
	MicroLinear	ML511	
SSI32R511-4	Hitachi	HA166008	
	MicroLinear	ML511-4C	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Silicon Systems (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SSI32R511-6	MicroLinear	ML511-6C	
SSI32R511-8	MicroLinear	ML511-8C	
SSI32R511R-4	MicroLinear	ML511R-4C	
SSI32R511R-6	MicroLinear	ML511R-6C	
SSI32R511R-8	MicroLinear	ML511R-8C	
SSI32R5111-4	Hitachi	HA166008	
SSI32R516	Hitachi	HA166008	
SSI32R570	Cherry Semi	CS570	
SSI73C550	Startech	ST16C550	
SSI73M1550	Startech	ST16C1550	
SSI73M2550	Startech	ST16C1551	
SSI75T202	Harris	CD22202	
SSI75T203	Harris	CD22203	
SSI75T204	Harris	CD22204	
SSI75T957A	Teltone	M957	
SSI75T980	Teltone	M980	
SSI75T981	Teltone	M981	
SSI75T982	Teltone	M982	
SSI78A093	Harris	CD22M3493	

Siliconix

Manufacturer Device	Replacement Source	Device	IC Master Page
BSR64	TeledyneC	SD1106	
BSR67	TeledyneC	SD1106	
BS170	TeledyneC	BS170	
DF412	Hughes	H7211	
DG180	Harris	DG180	
DG181	Harris	DG181	
DG182	Harris	DG182	
	TI	TL182	
		TL610	
DG184	Harris	DG184	
DG185	Harris	DG185	
	TI	TL188	
		TL604	
DG187	Harris	DG187	
DG188	Harris	DG188	
	TI	TL604	
DG190	Harris	DG190	
DG191	Harris	DG191	
	TI	TL191	
		TL604	
DG200	AD	ADG200	
		AD200	
		SW05	
	Harris	DG200	
		HI200	
	Maxim	DG200	
	MicroPwr	MP200	
	Unitrode	PIC7513	
DG201	AD	ADG201	
		SW01	
		SW201	
	Harris	DG201	
		HI201	
	Maxim	DG201	
	National	LF13201	
DG201A	NJR	NJU201A	
DG202	AD	SW02	
		SW202	
	Harris	DG202	
	Maxim	DG202	
	National	LF13202	
DG211	AD	ADG211	
		SW01	
	Harris	DG211	
	Maxim	DG211	
	National	LF13201	
	NJR	NJU211	
	Siliconix	DG444	
DG212	AD	ADG212	
		SW02	
	Harris	DG212	
	Maxim	DG212	
	National	LF13202	
	Siliconix	DG445	
DG221	AD	ADG221	
DG222	AD	ADG222	
DG271	AD	ADG201	
	Harris	HI201	
DG300	Harris	DG300	
		HI300	
	Maxim	DG300	
DG301	Harris	DG301	
		HI301	
	Maxim	DG301	
DG302	AD	AD302	
	Harris	DG302	
		HI302	
	Maxim	DG302	
	MicroPwr	MP302	
DG303	AD	AD303	
	Harris	DG303	
		HI303	
	Maxim	DG303	
	MicroPwr	MP303	
DG304	Harris	HI304	
	Maxim	DG304	
DG305	Harris	HI305	
	Maxim	DG305	
DG306	Harris	HI306	
	Maxim	DG306	
DG307	Harris	HI307	
	Maxim	DG307	
		SG307	
DG308	Harris	DG308	
	Maxim	DG308	
DG309	Harris	DG309	
	Maxim	DG309	
DG381	Harris	HI381	
	Maxim	DG381	
DG384	Harris	HI384	
	Maxim	DG384	
DG387	Harris	HI387	
	Maxim	DG387	
DG390	Harris	HI390	
	Maxim	DG390	
DG401	**Harris**	**DG401**	**(3637)**
		HI5041	
		IH5041	
		IH5141	
	Maxim	DG401	
		IH5041	
		IH5141	
DG403	**Harris**	**DG403**	**(3637)**
		HI390	
		HI5043	
		IH5043	
		IH5143	
	Maxim	DG390	
		DG403	
		IH5043	
		IH5143	
	Siliconix	DG5143	
DG405	Harris	DG405	
		HI384	
		HI5045	
		IH5145	
	Maxim	DG384	
		DG405	
		IH5045	
		IH5145	
DG406	AD	ADG506	
	Harris	DG406	
	Maxim	DG406	
DG407	AD	ADG507	
	Harris	DG407	
	Maxim	DG407	
DG408	AD	ADG408	
		ADG508	
		MUX08	
	Harris	DG408	
	Maxim	DG408	
DG409	AD	ADG409	
		ADG509	
		MUX24	
	Harris	DG409	
	Maxim	DG409	
DG411	AD	ADG411	
		AD201	
		SW201	
	Harris	DG411	
	Maxim	DG411	
	MicroPwr	MP201	
	National	LF11201	
		LF12201	
		LF13201	
DG412	AD	ADG412	
		SW202	
	Harris	DG412	
	Maxim	DG412	
	National	LF11202	
		LF12202	
		LF13202	
DG413	Harris	DG413	
	Maxim	DG413	
DG417	Maxim	DG417	
DG418	Maxim	DG418	
DG419	Maxim	DG419	
DG421	Maxim	DG421	
DG423	Maxim	DG423	
DG425	Maxim	DG425	
DG428	AD	ADG528	
DG429	AD	ADG529	
DG441	AD	ADG201	
		ADG441	
	Harris	DG441	
	Maxim	DG441	
		MAX331	
	TeledyneC	TSC4201	
DG442	AD	ADG202	
		ADG442	
	Harris	DG442	
	Maxim	MAX332	
	Siliconix	DG442	
	TeledyneC	TSC4202	
DG444	AD	ADG211	
		ADG444	
	Harris	DG444	
	Maxim	DG444	
	Siliconix	DG211	
DG445	AD	ADG212	
		ADG445	
	Harris	DG445	
	Maxim	DG445	
	Siliconix	DG212	
DG458	Harris	DG458	
		HI508A	
		HI548	
		IH5108	
	Maxim	MAX358	
DG459	Harris	DG459	
		HI509A	
		HI549	
		IH5208	
	Maxim	MAX359	
DG501	AMD	AM3705	
	AD	AD7501	
	MicroPwr	MP7501	
DG503	AD	AD7503	
	MicroPwr	MP7503	
	Siliconix	SI3705142	
		SI3705192	
DG5040	Harris	HI5040	
DG5041	Harris	HI5041	
DG5042	Harris	HI5042	
DG5043	Harris	HI5043	
		IH5043	
	Maxim	IH5043	
DG5044	Harris	HI5044	
DG5045	AD	SW7510	
	Harris	HI5045	
DG506	AD	ADG506	
		AD7506	
		MUX16	
	Burr-Brown	HI506A	
		MPC16	
		MPC506	
	Harris	DG506	
		DG506A	
		HI506	
	Maxim	DG506	
		IH6116	
		7506	
	MicroPwr	MP7506	
DG507	AD	ADG507	
		AD7507	
		MUX28	
	Burr-Brown	HI507A	
		MPC507	
		MPC8	
	Harris	DG507	
		DG507A	
		HI507	
	Maxim	DG507	
		IH6216	
		MX7507	
	MicroPwr	MP7507	
DG508	AD	ADG508	
		AD7508	
		MUX08	
	Burr-Brown	HI508A	
		MPC508	
		MPC8	
	Harris	DG508	
		DG508A	
		HI508	
		IH6108	
	Maxim	DG508	
		IH6108	
	MicroPwr	MP7508	
	National	LF13508	
DG509	AD	ADG509	
		AD7509	
		MUX24	
	Burr-Brown	HI509A	
		MPC4	
		MPC509	
	Harris	DG509	
		DG509A	
		HI509	
	Maxim	DG509	
	MicroPwr	MP7509	
	National	LF13509	
DG5140	Harris	IH5140	
	Maxim	IH5140	
DG5141	Harris	IH5141	
	Maxim	IH5141	
DG5142	Harris	IH5142	
	Maxim	IH5142	
DG5143	Harris	IH5143	
	Maxim	IH5143	
	Siliconix	DG403	
DG5144	Harris	IH5144	
	Maxim	IH5144	
DG5145	Harris	IH5145	
	Maxim	IH5145	
DG526	Harris	DG526	
DG527	Harris	DG527	
DG528	AD	ADG528	
	Harris	DG528	
		HI508	
	Maxim	DG528	
DG529	AD	ADG529	
	Harris	DG529	
		HI509	
	Maxim	DG529	
DG540	TeledyneC	CDG4308	
DG541	TeledyneC	CDG201	
		CDG211	
		CDG308	
DG590	Harris	IH6208	
	Maxim	IH6208	
DG641	Micrel	MIC641	
DN5564	Lin Int Sys	LS4391	
DN5565	Lin Int Sys	LS4391	
DN5566	Lin Int Sys	LS4391	
DN5567	Lin Int Sys	LS4391	
D6534	Burr-Brown	MPC100	
LD110	TI	ICL7135	
		TLC7135	
		TL503	
LD111	TI	ICL7135	
		TLC7135	
		TL501	
LD120	TI	ICL7135	
		TLC7135	
		TL500	
LD121	TI	ICL7135	
		TLC7135	
		TL503	
LI7820	Crystal	CS7280	
L111	GEC Plessey	ZN451	
MUX16	AD	MUX16	
M440	Lin Int Sys	LS5911	
M441	Lin Int Sys	LS5911	
M5911	Lin Int Sys	LS5911	
M5912	Lin Int Sys	LS5912	
PWM125	SGS-Thomson	SG1525	
		SG2525	
		SG3525	
SD210	TeledyneC	SD210	
SD211	TeledyneC	SD211	
		SD211A	
SD212	TeledyneC	SD212	
SD213	TeledyneC	SD213	
SD214	TeledyneC	SD214	
SD215	TeledyneC	SD215	
		SD215A	
SD5000	TeledyneC	SD5000	
	Universal	SD5000	
SD5001	TeledyneC	SD5001	
	Universal	SD5001	
SD5002	TeledyneC	SD5002	
	Universal	SD5002	
SD5100	Universal	SD5100	
SD5200	TeledyneC	SD5200	
	Universal	SD5200	
SD5400	TeledyneC	SD5400	
	Universal	SD5400	
SD5401	TeledyneC	SD5401	
		SD5402	
	Universal	SD5401	
SD5402	Universal	SD5402	

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♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Siliconix (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SG1626	**Micrel**	**MIC426**	(3688)
		MIC4426	(3688)
SG1846	Unitrode	UC1846	
SG1847	Unitrode	UC1847	
SG2626	**Micrel**	**MIC426**	(3688)
		MIC4426	(3688)
SG3626	**Micrel**	**MIC426**	(3688)
		MIC4426	(3688)
SG3846	Unitrode	UC3846	
SG3847	Unitrode	UC3847	
SI3705142	Siliconix	DG503	
SI3705192	Siliconix	DG503	
SI520	GEC Plessey	ZN437	
SI581	**Burr-Brown**	**BUF600**	(3459)
SI7135	Maxim	ICL7135	
	TeledyneC	TC7135	
	TI	ICL7135	
		TLC7135	
SI7533	Maxim	MX7533	
SI7541	Maxim	MX7541	
SI7545	Maxim	MX7545	
SI7652	Maxim	ICL7652	
SI7660	**Harris**	**ICL7660**	(3638)
		ICL7660S	(3638)
	LinearTech	LTC1044	
	Maxim	ICL7660	
	NJR	**NJU7660**	(3705)
	TeledyneC	TC7660	
		TSC7660	
SI7661	**Harris**	**ICL7662**	(3638)
	TeledyneC	TC7662	
		TC7662A	
SI7662	**NJR**	**NJU7662**	(3705)
SI7820	Maxim	MX7820	
SI8601	GEC Plessey	ZN437	
SI8602	GEC Plessey	ZN437	
SST404	Lin Int Sys	LS845	
SST405	Lin Int Sys	LS845	
SST406	Lin Int Sys	LS845	
SST410	Lin Int Sys	LS841	
SST412	Lin Int Sys	LS842	
U401	Lin Int Sys	LSU401	
U402	Lin Int Sys	LSU402	
U403	Lin Int Sys	LSU403	
U404	Lin Int Sys	LSU404	
U405	Lin Int Sys	LS845	
U406	Lin Int Sys	LS845	
U410	Lin Int Sys	LS841	
U411	Lin Int Sys	LS841	
U427	Lin Int Sys	LS832	
U428	Lin Int Sys	LS833	
U440	Lin Int Sys	LS5911	
U441	Lin Int Sys	LS5912	
U443	Lin Int Sys	LS5911	
U444	Lin Int Sys	LS5912	
VN0610	TeledyneC	VN0610	
VN10K	TeledyneC	VN10K	
VN2222	TeledyneC	VN2222	
VQ1000	TeledyneC	VQ1000	
2N3954	Lin Int Sys	LS3954	
2N3954A	Lin Int Sys	LS3954A	
2N3955	Lin Int Sys	LS3955	
2N3955A	Lin Int Sys	LS3954	
2N3956	Lin Int Sys	LS3956	
2N3957	Lin Int Sys	LS3956	
2N3958	Lin Int Sys	LS3958	
2N4084	Lin Int Sys	LS845	
2N4085	Lin Int Sys	LS845	
2N5045	Lin Int Sys	LS840	
2N5046	Lin Int Sys	LS840	
2N5047	Lin Int Sys	LS840	
2N5196	Lin Int Sys	LS840	
2N5197	Lin Int Sys	LS841	
2N5198	Lin Int Sys	LS841	
2N5199	Lin Int Sys	LS842	
2N5452	Lin Int Sys	LS840	
2N5453	Lin Int Sys	LS840	
2N5454	Lin Int Sys	LS840	
2N5515	Lin Int Sys	LS840	
2N5516	Lin Int Sys	LS841	
2N5517	Lin Int Sys	LS841	
2N5518	Lin Int Sys	LS842	
2N5519	Lin Int Sys	LS842	
2N5520	Lin Int Sys	LS840	
2N5521	Lin Int Sys	LS841	
2N5522	Lin Int Sys	LS841	
2N5523	Lin Int Sys	LS842	
2N5524	Lin Int Sys	LS842	
2N5545	Lin Int Sys	LS840	
2N5546	Lin Int Sys	LS841	
2N5547	Lin Int Sys	LS841	
2N5564	Lin Int Sys	LS5911	
2N5565	Lin Int Sys	LS5911	
2N5566	Lin Int Sys	LS5912	
2N5902	Lin Int Sys	LS830	
2N5903	Lin Int Sys	LS830	
2N5904	Lin Int Sys	LS830	
2N5905	Lin Int Sys	LS5905	
2N5906	Lin Int Sys	LS5906	
2N5907	Lin Int Sys	LS5907	
2N5908	Lin Int Sys	LS5908	
2N5909	Lin Int Sys	LS5909	
2N5911	Lin Int Sys	LS5911	
2N5912	Lin Int Sys	LS5912	
2N6905	Lin Int Sys	LS844	
2N6906	Lin Int Sys	LS844	
2N6907	Lin Int Sys	LS845	
2N7000	TeledyneC	2N7000	

Sipex

Manufacturer Device	Replacement Source	Device	IC Master Page
ADC541	GEC Plessey	ZN448	
		ZN449	
ADC58B	**MicroNet**	**ADC87**	(3690)
ADC581	MicroNet	ADC84	
		ADC85	
		ADC87	(3690)
ADC82	Burr-Brown	ADC82	
ADC85	MicroNet	ADC84	
		ADC85	
		ADC87	(3690)
ADC85C	MicroNet	ADC85	
AD2700	Thaler	VRE100	
DAC331	Datel	DACHA12	
	GEC Plessey	ZN429	
DAC335	**MicroNet**	**DAC87**	(3692)
DAC336	GEC Plessey	ZN428	
		ZN558	
DAC337	GEC Plessey	ZN429	
	MicroNet	**MN3000**	(3692)
		MN3001	(3692)
		MN3002	(3692)
		MN3003	(3692)
		MN3004	(3692)
		MN3005	(3692)
		MN3006	(3692)
		MN3007	(3692)
DAC347	**MicroNet**	**MN370**	(3692)
DAC349	**MicroNet**	**MN3348**	(3692)
		MN3349	(3692)
DAC87	**MicroNet**	**DAC87**	(3692)
DAC9331	MicroPwr	MP7626	
DAC9332	Burr-Brown	DAC708	
		DAC709	
DAC9349	**MicroNet**	**MN3349**	(3692)
DAC9356	MicroNet	DAC80	
DAC9377	Burr-Brown	DAC705	
EHA2515	Elantec	EHA2515	
	Harris	HA2515	
HDAC7541	Harris	AD7541	
HDAC7545	Harris	AD7545	
HSADC85	AD	ADADC85	
	Burr-Brown	ADC84	
		ADC85	
	Datel	ADC85	
		ADC87	
HSDAC80	Burr-Brown	DAC80	
	MicroNet	DAC80	
HSDAC87	Burr-Brown	DAC811	
		DAC87H	
HS2020	**MicroNet**	**MN2020**	(3693)
HS2700	AD	AD2700	
	Maxim	MX2700	
HS2701	AD	AD2701	
	Maxim	MX2701	
	Thaler	VRE101	
HS2702	AD	AD2702	
	Thaler	VRE102	
HS3020	**MicroNet**	**MN3020**	(3692)
HS3120	MicroPwr	MP7622	
HS3140	Datel	DACHA14	
	MicroPwr	MP7614	
HS346	AD	AD346	
	Harris	HIDAC80	
	MicroNet	**MN346**	(3693)
HS362	AD	AD362	
		AD364	
HS3860	AD	AD3860	
	MicroNet	**MN3850**	(3692)
		MN3860	(3692)
HS5131	**MicroNet**	**MN5131**	(3690)
HS5150	MicroNet	MN5150	
HS5200	Harris	HI674	
HS5210	AD	AD5210	
	MicroNet	**MN5210**	(3690)
HS5211	AD	AD5211	
	Datel	ADC5211	
	MicroNet	**MN5211**	(3690)
HS5212	AD	AD5212	
	Datel	ADC5212	
	MicroNet	**MN5212**	(3690)
HS5213	AD	AD5213	
	Datel	ADC5213	
	MicroNet	**MN5213**	(3690)
HS5214	**MicroNet**	**MN5214**	(3690)
♦ HS5214	AD	AD5214	
	Datel	ADC5214	
	MicroNet	**MN5214**	(3690)
HS5215	AD	AD5215	
	Datel	ADC5215	
	MicroNet	**MN5215**	(3690)
HS5216	AD	AD5216	
	Datel	ADC5216	
	MicroNet	**MN5216**	(3690)
HS5250	**MicroNet**	**MN5250**	(3690)
HS5251	**MicroNet**	**MN5251**	(3690)
HS5252	**MicroNet**	**MN5252**	(3690)
HS5253	**MicroNet**	**MN5253**	(3690)
HS574	AD	AD364	
		AD574	
	Burr-Brown	ADC574	
	Datel	ADC574	
	Harris	HI574	
		HI674	
	Maxim	MX574	
	MicroNet	MN574	
	MicroPwr	MP574	
	Signal Proc	HADC574	
HS574A	MicroNet	MN574A	
HS7528	AD	AD7528	
	Burr-Brown	DAC7528	
	MicroPwr	MP7528	
HS7541	AD	AD7528	
		AD7541	
		PM7541	
	Burr-Brown	DAC7541	
	Harris	AD7541	
	Maxim	MX7541	
	MicroPwr	MP7541	
		MP7623	
HS7542	MicroPwr	MP7542	
HS7543	MicroPwr	MP7543	
HS7545	AD	AD7545	
		PM7545	
	Burr-Brown	**DAC7545**	(3469)
	Harris	AD7545	
	MicroPwr	MP7545	
HS7584	MicroPwr	MP7680	
HS9331	MicroPwr	MP7626	
HS9403	Datel	HDAS16	
		HDAS8	
	MicroNet	MN7150	
HS9410	Burr-Brown	SDM872	
	MicroNet	MN7145	
HS9411	MicroNet	MN7146	
HS9412	MicroNet	MN7147	
HS9474	MicroNet	MN6227	
HS9576	**AD**	**AD1376**	(3510, 3538)
		AD376	
	Burr-Brown	ADC76	
HS9714	**AD**	**AD389**	(3532)
	Burr-Brown	**SHC76**	(3471)
	MicroNet	**MN374**	(3693)
HS9716	**MicroNet**	**MN374**	(3693)
HS9720	AD	HTC0300	
	Analogic	SHA2200	
	Datel	SHM4860	
	MicroNet	**MN376**	(3693)
MUX201	Unitrode	PIC7503	
SDM863	Sipex	SP9463	
SHM4860	**MicroNet**	**MN376**	(3693)
SPDAC87	AD	ADDAC85	
		ADDAC87	
	Burr-Brown	DAC87	
	Datel	DAC85	
		DAC87	
SP111	Burr-Brown	OPA111	
SP1148	AD	AD1148	
SP121	Burr-Brown	OPA121	
SP230	**AD**	**AD230**	(3514)
	Maxim	MAX230	
SP231	**AD**	**AD231**	(3514)
	Maxim	MAX231	
SP232	**AD**	**AD232**	(3514)
	Maxim	MAX232	
SP233	**AD**	**AD233**	(3514)
	Maxim	MAX233	
SP234	**AD**	**AD234**	(3514)
	Maxim	MAX234	
SP235	**AD**	**AD235**	(3514)
	Maxim	MAX235	
SP236	**AD**	**AD236**	(3514)
	Maxim	MAX236	
SP237	**AD**	**AD237**	(3514)
	Maxim	MAX237	
SP238	**AD**	**AD238**	(3514)
	Maxim	MAX238	
SP239	**AD**	**AD239**	(3514)
	Maxim	MAX239	
SP241	**AD**	**AD241**	(3514)
	Maxim	MAX241	
SP2500	Elantec	EHA2500	
	Harris	HA2500	
SP2502	Elantec	EHA2502	
	Harris	HA2502	
SP2505	Elantec	EHA2505	
	Harris	HA2505	
SP2510	Elantec	EHA2510	
	Harris	HA2510	
SP2512	Elantec	EHA2512	
	Harris	HA2512	
SP2515	Elantec	EHA2515	
	Harris	HA2515	
SP2520	Elantec	EHA2520	
	Harris	HA2520	
		HA2529	
SP2522	Elantec	EHA2522	
	Harris	HA2522	
		HA2529	
SP2525	Elantec	EHA2525	
	Harris	HA2529	
	Unitrode	UC2525	
SP2541	Harris	HA2541	
SP2542	Harris	HA2542	
SP2600	Harris	HA2600	
SP2602	Harris	HA2602	
SP2605	Harris	HA2605	
SP2610	Elantec	EHA2610	
	Harris	HA2610	
SP2612	Elantec	EHA2612	
	Harris	HA2612	
SP2615	Elantec	EHA2615	
	Harris	HA2615	
SP2620	Harris	HA2620	
SP2622	Harris	HA2622	
SP2625	Harris	HA2625	
SP301	AD	AD401	
SP302	AD	AD402	
SP5330	Harris	HA5330	
SP674	AD	AD0674	
		AD674	
	Burr-Brown	ADC674	
	Datel	ADC674	
	Maxim	MX674	
	MicroNet	MN674	
	Signal Proc	HADC674	
SP674A	MicroNet	MN674	
		MN674A	
SP7538	**AD**	**AD7538**	(3517)
	Maxim	MX7538	
SP7800	Burr-Brown	ADS7800	
	MicroNet	ADS7800	
SP9316	MicroPwr	MP7626	
SP9462	Burr-Brown	SDM862	
SP9463	Sipex	SDM863	
SP9472	Burr-Brown	SDM872	
SP9473	Burr-Brown	SDM873	
SP9560	AD	AD9005	
	Burr-Brown	ADC603	
	Datel	ADS130	
SP9610	AD	AD9610	

Sony Corporation of America

Manufacturer Device	Replacement Source	Device	IC Master Page
CSK5866	MicronSemi	MT5C6408	
CSXK58257	Mosel-Vitelic	MS62257	
CXA1056	**Harris**	**HI1386**	(3639)
CXA1066	**Harris**	**HI1396**	(3639)
CXA1076A	**Harris**	**HI1166**	(3639)
CXA1096	GEC Plessey	SP973	
	Samsung	KSV3208	
CXA1106	GEC Plessey	SP95308	
	Sony	SP95408	
CXA1166	**Harris**	**HI1166**	(3639)
CXA1176A	**Harris**	**HI1166**	(3639)
CXA1276	**Harris**	**HI1276**	(3639)
CXA1386	**Harris**	**HI1386**	(3639)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Sony Corporation of America (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
CXA1396	**Harris**	**HI1396**	(3639)
	Signal Proc	SPT7710	
CXD1167	Samsung	KS5990	
CXD1172	Fujitsu	MB40576	
CXD1175	MicroPwr	MP8785	
	Signal Proc	SPT1175	
CXD1247	Samsung	KS5991	
CXK382001	Samsung	KM23C2000	
CXK51256	AT&T	ATT7C197	
	Cypress	CY7C197	
	MicronSemi	MT5C2561	
	Mosel-Vitelic	MS62251A	
	Paradigm	PDM41257	
	Samsung	KM61257	
CXK5164	AT&T	ATT7C187	
	Krueger	6287-35	
		6287-45	(3663)
		6287-55	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Motorola	MCM6287	
	Toshiba	TC5561	
		TC5562	
CXK541000	Sharp	LH521002	
CXK5416	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	UMC	UM6168	
CXK54256	AT&T	ATT7C194	
	Cypress	CY7C194	
	MicronSemi	MT5C2564	
	Mosel-Vitelic	MS62252A	
	Paradigm	PDM41258	
	Samsung	KM64257	
	Sharp	LH52252	
	Toshiba	TC55464	
CXK5464	AT&T	ATT7C164	
	IDT	IDT7188	
	Krueger	**6288-25**	(3663)
		6288-35	
		6288-45	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Motorola	MCM6288	
	OKI	MSM5188	
	Toshiba	TC55416	
CXK5465	AT&T	ATT7C166	
	Krueger	6289-25	
		6289-35	
		6289-45	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mosel-Vitelic	MS6267A	
	Motorola	MCM6290	
		MCM62990A	
	Samsung	KM6466	
	Toshiba	TC55417	
CXK5466	MicronSemi	MT5C6404	
	Motorola	MCM6288	
CXK5467	MicronSemi	MT5C6405	
	Motorola	MCM6290	
CXK581000	Hitachi	HM628128	
	Hyundai	HY628100	
	Mitsubishi	M5M51008	
	OKI	MSM521001	
	Toshiba	TC551001	
		TC551001A	
CXK581001	Hitachi	HM628128	
	Mitsubishi	M5M51008	
	Toshiba	TC551001	
		TC551001A	
CXK581020	AT&T	ATT7C109	
	MicronSemi	MT5C1008	
	Mosel-Vitelic	MS621008	
	Motorola	MCM6226A	
	Sharp	LH521007	
		LH521008	
CXK581100	Toshiba	TC551001A	
CXK581120	Fujitsu	MB82008	
	MicronSemi	MT5C128K8	
	Toshiba	TC55B8128	
CXK5814	IDT	IDT6116	
	LogicDev	L6116	
	UMC	UM6116	
CXK5816	GoldStar	GM76C28	
	Hyundai	HY6116A	
	Krueger	**6116-120**	(3663)
		6116-150	(3663)
		6116-200	(3663)
	LogicDev	L6116	
	Sharp	LH5116	
	UMC	UM6116	
CXK5818	IDT	IDT6116	
CXK58255	AT&T	ATT7C199	
	Cypress	CY7C199	
	MicronSemi	MT5C2568	
	Motorola	MCM6206	
	Paradigm	PDM41256	
	Toshiba	TC55328	
CXK58256	IDT	IDT71256	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	OKI	MSM51257	
	UMC	UM62256	
CXK58257	Fujitsu	MB84256	
	GoldStar	GM76C256	
	Hitachi	HM2256	
	Mitsubishi	M5M255	
	Mosel-Vitelic	MS62256	
	Samsung	KM62256	
	Sharp	LH52250AL	
	Toshiba	TC55257	
		TC5563	
CXK58258	Cypress	CY7C198	
		CY7C199	
	IDT	IDT71256	
	Krueger	62256-025	
		62256-030	
		62256-035	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256	
		MS62256A	
	Motorola	MCM6206	
	Paradigm	PDM41256	
	Samsung	KM68257	
	Sharp	LH52258	
	Toshiba	TC55328	
CXK58258A	Motorola	MCM6206	
CXK584000	Toshiba	TC554002	
CXK5863	AT&T	ATT7C185	
	Cypress	CY7C185	
	Fujitsu	MB81C78	
	IDT	IDT7164	
	Krueger	6264-025	
		6264-035	
		6264-045	
	MicronSemi	MT5C6408	
	Mosel-Vitelic	MS6264	
	Motorola	MCM6264	
	Toshiba	TC5588	
	UMC	UM6164	
CXK5863-35	Krueger	6264LP-035	
CXK5863-45	Krueger	6264LP-045	
CXK5863A	Mosel-Vitelic	MS6264A	
CXK5864	Fujitsu	MB8464	
	Hitachi	HM6264	
	IDT	IDT7164	
	Krueger	**6264-100**	(3663)
		6264-120	(3663)
		6264-150	(3663)
	LogicDev	L7C185	
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264	
		MS6265	
	OKI	MSM5165	
	Samsung	KM6264	
	Toshiba	TC5563	
		TC5565	
	UMC	UM6264	
CXK5864-L	Krueger	6264L-120	
		6264LP-100	(3663)
		6264LP-120	(3663)
		6264LP-150	(3663)
CXK5864-70L	Krueger	6264LP-070	
CXK5864B	GoldStar	GM76C88L	
	Hyundai	HY6264A	
	Sharp	LH5168	
CXK5865	IDT	IDT7164	
	LogicDev	L7C185	
CXK5866	Toshiba	TC55B88	
CXK59288	Motorola	MCM6205	
	Toshiba	TC55B329	
		TC55329	
CXK5971	Fujitsu	MB81C79	
	Motorola	MCM6265	
	Toshiba	TC5589	
CXK5972	Toshiba	TC5589	
CXK7701	AT&T	ATT7C183	
	MicronSemi	MT56C0816	
	Samsung	KM78C80	
	Toshiba	TC55187	
	UMC	UM61168	
CXK77410	Motorola	MCM67QA04	
	Samsung	KM741006	
CXK77910	MicronSemi	MT58C1289	
CXP5024	Samsung	KS56C820	
CX20116	GEC Plessey	SP97508	
	Harris	**HI1396**	(3639)
	Signal Proc	SPT7710	
CX20201A-1	**Harris**	**HI20201**	(3639)
CX20201A-3	**Harris**	**HI20203**	(3639)
SP95408	Sony	CXA1106	
SXA1096	IDT	IDT75C48	
SXK384001	Samsung	KM23C4000	
SXK5464	Samsung	KM6465	
TM562828	GoldStar	GM76C8128L	
2003	AnalogSys	MA332	
		MA362	
2004	AnalogSys	MA372	

Standard Microsystems Corp.

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ COM1671	National	INS1671	
	Western	UC1671	
♦ COM1863	American Micro	S1602	
	Philips	2536	
	SMC	COM8018	
	Western	TR1863	
COM20051	Intel	8031	
		8032	
COM2651	Philips	SCN2651	
♦ COM2651	National	INS2651	
	Philips	2651	
COM2661	Philips	SCN2661	
♦ COM5016	Microchip	AY58116	
		AY58136	
♦ COM5016	Western	WD1941	
		WD1943	
		WD1945	
COM5025	American Micro	S6852	
	Motorola	2652	
	National	F3486	
		F3856	
		6852	
	Philips	2652	
	Western	SD1933	
♦ COM5026	Harris	HD4702	
		HD6405	
♦ COM5026	Microchip	AY58126	
	Motorola	MC14411	
	National	F4702	
		MM307	
♦ COM5036	Microchip	AY58116	
		AY58136	
♦ COM5036	Western	WD1941	
		WD1943	
		WD1945	
♦ COM5046	Harris	HD4702	
		HD6405	
♦ COM5046	Microchip	AY58126	
	Motorola	MC14411	
	National	F4702	
		MM307	
COM52C50	National	DP8344	
♦ COM7210	Intel	8291	
		8292	
♦ COM7210	Motorola	MC68B488	
	National	F68488	
		96LS488	
♦ COM7210	NEC	µPD7210	
	TI	TMS9914	
	Western	WD9914	
♦ COM78808	SMC	COM78C808	
COM8017	American Micro	S6850	
	Harris	HM6402	
	Microchip	AY31013	
	Motorola	MC6850	
	National	F6850	
		NSC858	
COM8017			(Cont'd)
	TI	TMS6011	
	Western	TR1602	
COM8116	Microchip	AY58116	
		AY58136	
	Western	WD1941	
		WD1943	
		WD1945	
COM8126	Harris	HD4702	
		HD6405	
	Microchip	AY58126	
	Motorola	MC14411	
	National	F4702	
		MM307	
COM8136	Microchip	AY58116	
		AY58136	
	Western	WD1941	
		WD1943	
		WD1945	
COM8146	Harris	HD4702	
		HD6405	
	Microchip	AY58126	
	Motorola	MC14411	
	National	F4702	
		MM307	
COM82C501	Intel	82501	
♦ COM82C502	Intel	82502	
COM8251	AMD	8251	
	Intel	8251	
	National	INS8251	
	NEC	µPD8251	
	Western	TR1983	
COM82586	Intel	82586	
♦ COM8502	Harris	HM6403	
	Microchip	AY31013	
	Western	TR1983	
COM90C26	NCR	90C26	
COM90C32	NCR	90C32	
COM90C84	National	DP8340	
		DP8341	
		DP8344	
♦ COM9026	SMC	COM90C26	
	Western	WD2840	
♦ COM9032	SMC	COM90C32	
COM9064	National	DP8340	
		DP8341	
		DP8344	
CRT5037	Intel	8275	
	Motorola	MC6845	
	National	DP8350	
	TI	TMS9927	
		TMS9937	
CRT7220	Intel	82720	
	NEC	µPD7220	
CRT9007	Krueger	9007	
	Philips	SCN2674	
CRT9028	National	NS455	
CRT9041	Philips	SCN2675	
CRT9053	National	NS455	
CRT9128	National	NS455	
CRT9153	National	NS455	
♦ FDC1791	Fujitsu	MB8876	
	Siemens	SAB1791	
♦ FDC1793	Fujitsu	MB8877	
	Siemens	SAB1793	
	Western	FD1793	
♦ FDC1795	Siemens	SAB1795	
	Western	FD1795	
♦ FDC1797	Siemens	SAB1797	
	Western	FD1797	
FDC37C65	Western	WD37C65	
♦ FDC72C65	NEC	µPD72065	
♦ FDC72C66	NEC	µPD72065	
♦ FDC7265	NEC	µPD7265	
FDC765	Krueger	765	
	NEC	µPD765	
FDC92C36	Western	FD9216	
FDC9216	UMC	UM8326	
	Western	FD9216	
♦ FDC9791	Fujitsu	MB8876	
	Siemens	SAB1791	
	Western	FD1791	
♦ FDC9795	Siemens	SAB1795	
	Western	FD1795	
FDC9797	Siemens	SAB1797	
	Western	FD1797	
HDC1100	Western	WD1100	
♦ HDC7260	NEC	µPD7260	
♦ HDC7261	NEC	µPD7261	
KR9600	Microchip	AY53600	
	National	MM5740	
	TI	TMS5001	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Standard Microsystems Corp. (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
KR9601	Microchip	AY53600	
	National	MM5740	
	TI	TMS5001	
KR9602	Microchip	AY53600	
	National	MM5740	
	TI	TMS5001	
♦ MC194C18	SMC	MC194C18A	
♦ MPU800	National	NSC800	
♦ MPU810	National	NSC810	
♦ MPU830	National	NSC830	
♦ MPU831	National	NSC831	
♦ MSD7262	NEC	µPD7262	

StarTech Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
ST16C1550	**SiliconSys**	**SSI73M1550**	**(3780)**
ST16C1551	**SiliconSys**	**SSI73M2550**	**(3780)**
ST16C2552	National	NS16C552	
ST16C450	Exar	XR16C450	
	National	NS16450	
ST16C452	Exar	XR16C452	
	TI	VL16C452	
	VLSI Tech	VL16C452	
	Western	WD16C452	
ST16C550	National	NS16550	
	SiliconSys	SSI73C550	
	TI	VL16C550	
	VLSI Tech	VL16C550	
	Western	WD16C550	
ST16C552	Exar	XR16C552	
	TI	TL16C552	
	VLSI Tech	VL16C552	
	Western	WD16C552	
ST26C31	National	DS26C31	
ST26C32	National	DS26C32	
ST34C50	Motorola	MC34050	
ST34C51	Motorola	MC34051	
ST34C86	National	DS34C86	
ST34C87	National	DS34C87	
ST49C061	IntCirSys	ICS90C61	
ST49C103	Avasem	AV9103	
ST49C104	Avasem	AV9104	
ST49C106	Avasem	AV9106	
ST49C107	Avasem	AV9107	
ST49C155	Avasem	AV9155	
ST49C214	IntCirSys	ICS2494	
ST49C394	IntCirSys	ICS1394	

STC Components

Manufacturer Device	Replacement Source	Device	IC Master Page
FC15536	GEC Plessey	CT1487	
FC15537	GEC Plessey	CT1589	
		CT2077	
		CT3077	
		CT3231	
FC15538	GEC Plessey	CT3232	
FC15539	GEC Plessey	CT2521	
		CT2522	
♦ SAL8002	GEC Plessey	SL2521	
		SL2522	
♦ SCC8008	GEC Plessey	SP93808	
♦ SLE5004	Motorola	DP8480	
		DP8482	
		MC10H350	
♦ SLG8001	Motorola	MC1690	
	National	11C60	
♦ SLS6016	American Micro	679501	
	National	DP8515	
♦ SLS6216	American Micro	679502	
♦ SRM8204	**Siemens**	**TBB204**	**(3769)**
STC5089	GEC Plessey	MV5089	
♦ TEL5221	Exar	XR5600	
		XR5620	
♦ TEL5221	Harris	CD22301	
♦ TEL5408	Marconi	MA5409	
♦ TEL5413	Marconi	MA5413	
	SGS-Thomson	M3541	
♦ TEL5415	Marconi	MA5416	
	SGS-Thomson	M3541	
♦ TEL5453	Marconi	MA5453	
♦ TEL5473	Marconi	MA5473	
♦ TEL5520	Exar	XR5681	
		XR5683	

Supertex

Manufacturer Device	Replacement Source	Device	IC Master Page
AN0110	Universal	USH5007	
AN0120	Universal	USH5007	
AN0130	Universal	USH5007	
CM1600	Hughes	H23C16	
HV16	Universal	USH5008	
HV21	Universal	USH5021	
HV22	Universal	USH5022	
VN2222	TeledyneC	VN2222	
VQ1000	TeledyneC	VQ1000	
2N7000	TeledyneC	2N7000	
23SC64	Hughes	H23C64	
		H23C65	
23SC65	Hughes	H23C64	
		H23C65	

Synergy Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
SY10ELT22	Motorola	MC10ELT22	
SY10ELT23	Motorola	MC10ELT23	
SY10EL01	Motorola	MC10EL01	
SY10EL04	Motorola	MC10EL04	
SY10EL05	Motorola	MC10EL05	
SY10EL07	Motorola	MC10EL07	
SY10EL11	Motorola	MC10EL11	
SY10EL12	Motorola	MC10EL12	
SY10EL16	Motorola	MC10EL16	
SY10EL31	Motorola	MC10EL31	
SY10EL32	Motorola	MC10EL32	
SY10EL33	Motorola	MC10EL33	
SY10EL35	Motorola	MC10EL35	
SY10EL51	Motorola	MC10EL51	
SY10EL52	Motorola	MC10EL52	
SY10EL58	Motorola	MC10EL58	
SY10EL89	Motorola	MC10EL89	
SY10E016	Motorola	MC10E016	
SY10E101	Motorola	MC10E101	
SY10E104	Motorola	MC10E104	
SY10E107	Motorola	MC10E107	
SY10E111	Motorola	MC10E111	
SY10E112	Motorola	MC10E112	
SY10E116	Motorola	MC10E116	
SY10E122	Motorola	MC10E122	
SY10E131	Motorola	MC10E131	
SY10E136	Motorola	MC10E136	
SY10E137	Motorola	MC10E137	
SY10E141	Motorola	MC10E141	
SY10E142	Motorola	MC10E142	
SY10E143	Motorola	MC10E143	
SY10E150	Motorola	MC10E150	
SY10E151	Motorola	MC10E151	
SY10E154	Motorola	MC10E154	
SY10E155	Motorola	MC10E155	
SY10E156	Motorola	MC10E156	
SY10E157	Motorola	MC10E157	
SY10E158	Motorola	MC10E158	
SY10E160	Motorola	MC10E160	
SY10E163	Motorola	MC10E163	
SY10E164	Motorola	MC10E164	
SY10E1651	Motorola	MC10E1651	
SY10E1652	Motorola	MC10E1652	
SY10E166	Motorola	MC10E166	
SY10E167	Motorola	MC10E167	
SY10E171	Motorola	MC10E171	
SY10E175	Motorola	MC10E175	
SY10E193	Motorola	MC10E193	
SY10E195	Motorola	MC10E195	
SY10E196	Motorola	MC10E196	
SY10E197	Motorola	MC10E197	
SY10E212	Motorola	MC10E212	
SY10E241	Motorola	MC10E241	
SY10E256	Motorola	MC10E256	
SY10E336	Motorola	MC10E336	
SY10E337	Motorola	MC10E337	
SY10E404	Motorola	MC10E404	
SY10E416	Motorola	MC10E416	
SY10E422	Aspen	CY10E422	
	Fujitsu	MBM10422	
	NEC	µPD10422	
SY10E431	Motorola	MC10E431	
SY10E445	Motorola	MC10E445	
SY10E446	Motorola	MC10E446	
SY10E451	Motorola	MC10E451	
SY10E457	Motorola	MC10E457	
SY10H600	Motorola	MC10H600	
SY10H601	Motorola	MC10H602	
SY10H603	Motorola	MC10H603	
SY10H641	Motorola	MC10H641	
SY10L474	Aspen	CY10E474	
	Fujitsu	MBM10474	
SY10L484	Fujitsu	MBM10484	
	IDT	IDT10A484	
SY100ELT22	Motorola	MC100ELT22	
SY100ELT23	Motorola	MC100ELT23	
SY100EL01	Motorola	MC100EL01	
SY100EL04	Motorola	MC100EL04	
SY100EL05	Motorola	MC100EL05	
SY100EL07	Motorola	MC100EL07	
SY100EL11	Motorola	MC100EL11	
SY100EL12	Motorola	MC100EL12	
SY100EL16	Motorola	MC100EL16	
SY100EL31	Motorola	MC100EL31	
SY100EL32	Motorola	MC100EL32	
SY100EL33	Motorola	MC100EL33	
SY100EL35	Motorola	MC100EL35	
SY100EL51	Motorola	MC100EL51	
SY100EL52	Motorola	MC100EL52	
SY100EL58	Motorola	MC100EL58	
SY100E016	Motorola	MC100E016	
SY100E101	Motorola	MC100E101	
SY100E104	Motorola	MC100E104	
SY100E107	Motorola	MC100E107	
SY100E111	Motorola	MC100E111	
SY100E112	Motorola	MC100E112	
SY100E116	Motorola	MC100E116	
SY100E122	Motorola	MC100E122	
SY100E131	Motorola	MC100E131	
SY100E136	Motorola	MC100E136	
SY100E137	Motorola	MC100E137	
SY100E141	Motorola	MC100E141	
SY100E142	Motorola	MC100E142	
SY100E143	Motorola	MC100E143	
SY100E150	Motorola	MC100E150	
SY100E151	Motorola	MC100E151	
SY100E154	Motorola	MC100E154	
SY100E155	Motorola	MC100E155	
SY100E156	Motorola	MC100E156	
SY100E157	Motorola	MC100E157	
SY100E158	Motorola	MC100E158	
SY100E160	Motorola	MC100E160	
SY100E163	Motorola	MC100E163	
SY100E164	Motorola	MC100E164	
SY100E166	Motorola	MC100E166	
SY100E167	Motorola	MC100E167	
SY100E171	Motorola	MC100E171	
SY100E175	Motorola	MC100E175	
SY100E193	Motorola	MC100E193	
SY100E195	Motorola	MC100E195	
SY100E196	Motorola	MC100E196	
SY100E197	Motorola	MC100E197	
SY100E212	Motorola	MC100E212	
SY100E241	Motorola	MC100E241	
SY100E256	Motorola	MC100E256	
SY100E336	Motorola	MC100E336	
SY100E337	Motorola	MC100E337	
SY100E404	Motorola	MC100E404	
SY100E416	Motorola	MC100E416	
SY100E431	Motorola	MC100E431	
SY100E445	Motorola	MC100E445	
SY100E446	Motorola	MC100E446	
SY100E451	Motorola	MC100E451	
SY100E457	Motorola	MC100E457	
SY100H600	Motorola	MC100H600	
SY100H601	Motorola	MC100H601	
SY100H602	Motorola	MC100H602	
SY100H603	Motorola	MC100H603	
SY100H641	Motorola	MC100H641	
SY100L422	Aspen	CY100E422	
	Fujitsu	MBM100422	
	NEC	µPD100422	
SY100L474	Aspen	CY100E474	
	Fujitsu	MBM100474	
SY100L484	Fujitsu	MBM100484	
	IDT	IDT100A484	
SY100S301	National	100101	
	Philips	100101	
SY100S302	National	100102	
	Philips	100102	
SY100S304	National	100104	
	Philips	100104	
SY100S307	National	100107	
	Philips	100107	
SY100S313	National	100113	
	Philips	100113	
SY100S314	National	100114	
	Philips	100114	
SY100S317	National	100117	
	Philips	100117	
SY100S318	National	100118	
	Philips	100118	
SY100S321	National	F100321	
SY100S322	National	100122	
	Philips	100122	
SY100S324	National	F100324	
SY100S325	National	F100325	
SY100S328	National	F100328	
SY100S331	National	100131	
	Philips	100131	
SY100S336	National	100136	
	Philips	100136	
SY100S341	National	100141	
	Philips	100141	
SY100S350	National	100150	
	Philips	100150	
SY100S351	National	100151	
	Philips	100151	
SY100S355	National	100155	
	Philips	100155	
SY100S356	National	100156	
	Philips	100156	
SY100S360	National	100160	
	Philips	100160	
SY100S363	National	100163	
	Philips	100163	
SY100S364	National	100164	
	Philips	100164	
SY100S365	National	100165	
	Philips	100165	
SY100S366	National	100166	
	Philips	100166	
SY100S370	National	100170	
	Philips	100170	
SY100S371	National	100171	
	Philips	100171	
SY100422	Aspen	CY100E422	
	Fujitsu	MBM10422	
SY100474	Aspen	CY100E474	
	Fujitsu	MBM100474	
	NEC	µPD100474	
SY100480	Fujitsu	MBM100480	
	IDT	IDT100480	
	NEC	µPD100480	
SY100484	IDT	IDT100A484	
		IDT100484	
	NEC	µPD100A484	
SY100492	Aspen	CY100E492	
SY101L484	IDT	IDT101A484	
SY101474	Fujitsu	MBM101474	
SY101480	IDT	IDT101480	
SY101484	Fujitsu	MBM101484	
	IDT	IDT101A484	
		IDT101484	
SY101492	Aspen	CY101E492	
SY101494	Aspen	CY101E494	
SY10422	Aspen	CY10E422	
	Fujitsu	MBM10422	
SY10474	Aspen	CY10E474	
	Fujitsu	MBM10474	
	NEC	µPD10474	
SY10480	Fujitsu	MBM10480	
	IDT	IDT10480	
	NEC	µPD10480	
SY10484	Fujitsu	MBM10484	
	IDT	IDT10A484	
		IDT10484	
	NEC	µPD10A484	

Teledyne Components

Manufacturer Device	Replacement Source	Device	IC Master Page
BS170	Motorola	BS170	
	Siliconix	BS170	
CDG201	AD	ADG201	
	MicroPwr	MP201	
	Siliconix	DG541	
CDG211	AD	DG211	
	Siliconix	DG541	
CDG308	Siliconix	DG541	
CDG4308	Siliconix	DG540	
ICL7117	Maxim	ICL7117	
MP5010	ECI Semi	5010	
REF01	**AD**	**REF01**	**(3536)**
	Maxim	REF01	
	Motorola	MC1404	
REF02	Maxim	REF02	
	Motorola	MC1404	
SD1106	Siliconix	BSR64	
		BSR67	
SD210	Siliconix	SD210	
SD211	Siliconix	SD211	
SD211A	Siliconix	SD211	
SD212	Siliconix	SD212	
SD213	Siliconix	SD213	
SD214	Siliconix	SD214	
SD215	Siliconix	SD215	
SD215A	Siliconix	SD215	
SD5000	Siliconix	SD5000	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Teledyne Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SD5001	Siliconix	SD5001	
SD5002	Siliconix	SD5002	
SD5200	Siliconix	SD5200	
SD5400	Siliconix	SD5400	
SD5401	Siliconix	SD5401	
SD5402	Siliconix	SD5401	
TC1426	**Micrel**	**MIC1426**	**(3688)**
♦ TC1427	Micrel	MIC1427	
♦ TC1428	Micrel	MIC1428	
♦ TC14433	Motorola	MC14433	
TC232	Dallas	DS1228	
		DS232	
	Harris	ICL232	
	LinearTech	LT1081	
	Maxim	MAX232	
TC426	**Harris**	**ICL7667**	**(3638)**
	Maxim	TSC426	
	Micrel	**MIC426**	**(3688)**
TC427	Maxim	TSC427	
	Micrel	MIC427	
TC428	Maxim	TSC428	
	Micrel	MIC428	
TC44	Micrel	MIC44	
TC4420	**Micrel**	**MIC4420**	**(3688)**
TC4423	Maxim	MAX626	
	Micrel	**MIC4423**	**(3688)**
TC4424	Maxim	MAX627	
	Micrel	MIC4424	
TC4425	Maxim	MAX628	
	Micrel	MIC4425	
TC4426	**Micrel**	**MIC4426**	**(3688)**
TC4427	Micrel	MIC4427	
TC4428	Micrel	MIC428	
		MIC4428	
TC4429	Micrel	MIC4429	
TC7106	Harris	ICL7106	
	Maxim	ICL7106	
TC7107	Harris	ICL7107	
	Maxim	ICL7107	
TC7109	Datel	ADC7109	
	Harris	ICL7109	
	Maxim	ICL7109	
TC7109A	Harris	ICL7109A	
	Maxim	ICL7109A	
TC7116	Harris	ICL7116	
	Maxim	ICL7116	
TC7117	Harris	ICL7117	
	Maxim	ICL7117	
TC7126	Harris	ICL7126	
	Maxim	ICL7126	
TC7129	Harris	ICL7129	
	Maxim	ICL7129	
		ICL7129A	
		MAX7129A	
TC7135	Harris	ICL7135	
	Maxim	ICL7135	
	Siliconix	SI7135	
TC7136	Harris	ICL7136	
	Maxim	ICL7136	
TC7211	Harris	ICM7211	
	Hughes	HLCD7211	
	Maxim	ICM7211	
TC7211A	Harris	ICM7211A	
	Maxim	ICM7211A	
TC7212	Harris	ICM7212	
	Maxim	ICM7212	
TC7212A	Harris	ICM7212A	
	Maxim	ICM7212A	
TC7650	Datel	AM7650	
	Harris	ICL7650	
	Maxim	ICL7650	
TC7652	Harris	ICL7652	
	LinearTech	LTC1052	
	Maxim	ICL7652	
TC7660	Datel	VI7660	
	Harris	**ICL7660**	**(3638)**
	LinearTech	LTC1044	
	Maxim	ICL7660	
	National	LMC7660	
	Siliconix	SI7660	
TC7662	**Harris**	**ICL7662**	**(3638)**
	Maxim	ICL7662	
	Siliconix	SI7661	
TC7662A	**Harris**	**ICL7662**	**(3638)**
	Maxim	ICL7662	
	Siliconix	SI7661	
TC800	Datel	ADC800	
♦ TC835	Harris	ICL7135	
	Maxim	ICL7135	
	Siliconix	SI7135	
TC8700	Datel	ADCEK8	
TC8701	Datel	ADCEK10	
TC8702	Datel	ADCEK1	
TC8704	Datel	ADCET10	
TC8705	Datel	ADCET12	
TC8750	Datel	ADCEK12	
TC9400	Datel	VFQ1	
TC9401	Datel	VFQ2	
TC9402	Datel	VFQ3	
TC9420	Maxim	MAX420	
TC9421	Maxim	MAX421	
TPDAC80	Harris	HIDAC80	
TSC04	Harris	ICL8069	
	LinearTech	LM385	
TSC05	**AD**	**REF43**	**(3536)**
	LinearTech	LM385	
TSC1427	Micrel	MIC1427	
TSC1428	Micrel	MIC1428	
TSC14433	TI	ICL7135	
		TLC7135	
TSC15C25	Unitrode	UC1525	
TSC15C27	Unitrode	UC1527	
TSC170	LinearTech	LT3846	
TSC171	LinearTech	LT3847	
TSC18C42	Unitrode	UC1842	
TSC18C44	Unitrode	UC1844	
TSC18C45	Unitrode	UC1845	
TSC232	Harris	ICL232	
	LinearTech	LT1080	
		LT1081	
TSC25C25	Unitrode	UC2525	
TSC25C27	Unitrode	UC2527	
TSC28C42	Unitrode	UC2842	
TSC28C43	Unitrode	UC2843	
TSC28C44	Unitrode	UC2844	
TSC28C45	Unitrode	UC1845	
TSC28C46	Unitrode	UC2846	
TSC35C25	Unitrode	UC3525	
TSC35C27	Unitrode	UC3527	
TSC38C42	Unitrode	UC3842	
TSC38C44	Unitrode	UC3844	
TSC38C45	Unitrode	UC3845	
TSC38C46	Unitrode	UC1846	
		UC3846	
TSC38C47	Unitrode	UC1847	
TSC4201	AD	SW01	
	Siliconix	DG441	
TSC4202	AD	SW02	
	Siliconix	DG442	
TSC4203	AD	SW06	
TSC426	**Harris**	**ICL7667**	**(3638)**
	Maxim	TSC426	
	Micrel	**MIC426**	**(3688)**
TSC427	Maxim	TSC427	
	Micrel	MIC427	
TSC428	Maxim	TSC428	
	Micrel	MIC428	
TSC4401	Micrel	MIC4401	
TSC4403	Micrel	MIC4403	
TSC441	AD	SW01	
TSC442	AD	SW02	
TSC4420	**Micrel**	**MIC4420**	**(3688)**
TSC4421	**Micrel**	**MIC4421**	**(3688)**
TSC4422	Micrel	MIC4422	
TSC4424	Micrel	MIC4424	
TSC4425	Micrel	MIC4425	
TSC4426	**Micrel**	**MIC4426**	**(3688)**
TSC4427	Micrel	MIC4427	
TSC4428	Micrel	MIC4428	
TSC4429	Micrel	MIC4429	
TSC443	AD	SW06	
TSC444	Unitrode	PIC7512	
TSC445	Unitrode	PIC7510	
		PIC7511	
TSC4467	**Micrel**	**MIC4467**	**(3688)**
TSC4468	**Micrel**	**MIC4468**	**(3688)**
TSC4469	**Micrel**	**MIC4469**	**(3688)**
TSC7106	Harris	ICL7106	
	Maxim	ICL7106	
TSC7107	Harris	ICL7107	
	Maxim	ICL7107	
TSC7109	Harris	ICL7109	
	Maxim	ICL7109	
TSC7116	Harris	ICL7116	
	Maxim	ICL7116	
TSC7117	Harris	ICL7117	
	Maxim	ICL7117	
TSC7126	Harris	ICL7126	
	Maxim	ICL7126	
	Samsung	KS7126	
TSC7129	Harris	ICL7129	
	Maxim	ICL7129	
TSC7135	Harris	ICL7135	
	Maxim	ICL7135	
	TI	ICL7135	
		TLC7135	
TSC7136	Harris	ICL7136	
	Maxim	ICL7136	
TSC7211	Harris	ICL7137	
	Maxim	ICM7211	
TSC7212	Harris	ICM7212	
	Maxim	ICM7212	
TSC7650	Harris	ICL7650S	
	LinearTech	LTC1050	
	Maxim	ICL7650	
TSC7652	LinearTech	LTC1052	
		LTC7652	
	Maxim	ICL7652	
TSC7660	**Harris**	**ICL7660S**	**(3638)**
	LinearTech	LTC1044	
	Maxim	ICL7660	
	Siliconix	SI7660	
TSC7662	**Harris**	**ICL7662**	**(3638)**
TSC805	Harris	ICL7149	
TSC810	Harris	ICL7116	
TSC815	Harris	ICL7149	
TSC8700	GEC Plessey	ZN427	
		ZN448	
TSC8701	GEC Plessey	ZN432	
		ZN501	
	TI	TLC1541	
TSC8703	GEC Plessey	ZN439	
		ZN448	
TSC8704	GEC Plessey	ZN432	
		ZN501	
	TI	TLC1541	
TSC911	LinearTech	LTC1050	
TSC913	LinearTech	LTC1051	
		LT1078	
TSC914	LinearTech	LTC1053	
		LT1079	
TSC918	LinearTech	LTC7652	
TSC9491	Harris	ICL8069	
	LinearTech	LM385	
		LT1004	
	Maxim	ICL8069	
TSC9495	AD	REF02	
	LinearTech	LT1019	
		LT1021	
		REF02	
TSC9496	AD	SW01	
	LinearTech	LT1021	
		REF01	
TSC962	LinearTech	LTC1046	
VN0610	Motorola	VN0610	
	Siliconix	VN0610	
VN10K	Siliconix	VN10K	
VN2222	Motorola	VN2222	
	Siliconix	VN2222	
	Supertex	VN2222	
VQ1000	Siliconix	VQ1000	
	Supertex	VQ1000	
1322	Elantec	EHA2520	
		EHA2525	
1359	Elantec	ELH0033	
1460	**Apex**	**PA09**	**(3544)**
1461	**Apex**	**PA09**	**(3544)**
1468	**Apex**	**PA12**	**(3545)**
1480	**Apex**	**PA83**	**(3544)**
		PA84	**(3544)**
2N7000	Motorola	2N7000	
	Siliconix	2N7000	
	Supertex	2N7000	
4781	Raytheon	RC4152	
4782	Raytheon	RC4153	

Teledyne Philbrick

Manufacturer Device	Replacement Source	Device	IC Master Page
TCPA09	**Apex**	**PA09**	**(3544)**
TC232	Dallas	DS1228	
		DS232	
	Harris	ICL232	
TC7109	Datel	ADC7109	
TPADC85	Burr-Brown	ADC84	
		ADC85	
		ADC85H	**(3473)**
TPADC87	Burr-Brown	ADC87	
TPDAC80	MicroNet	DAC80	
TP0032	National	LH0032	
TP0033	Elantec	ELH0033	
	National	LH0033	
TP1321	Harris	HA5195	
TP1322	Harris	HA2520	
TP1326	Harris	HA2600	
TP1332	Harris	HA2645	
TP1339	Harris	HA2620	
TP1341	Harris	HA2540	
TP1342	Harris	HA2539	
TP1344	Harris	HA5160	
TP1345	Harris	HA5162	
TP4856	Harris	HA2420	
		HA2425	
TP4860	**Burr-Brown**	**SHC804**	**(3471)**
	MicroNet	**MN376**	**(3693)**
TP4866	Harris	HA5320	
TP5210	**MicroNet**	**MN5210**	**(3690)**
TP5214	**MicroNet**	**MN5214**	**(3690)**
TP574A	MicroNet	MN574A	
1480	Burr-Brown	3583	
4860	Analogic	SHA2200	

Teltone

Manufacturer Device	Replacement Source	Device	IC Master Page
M8870	CMD Micro	CM8870	
		G8870	
	Crystal	CS8870	
	Mitel	MT8870	
		MT8870-1	
	Samsung	KT3170	
	Sierra	SC11270	
		SC11271	
M8880	CMD Micro	CM8880	
		G8880	
	Mitel	MT8880	
M8888	CMD Micro	CM8888	
		G8888	
	Mitel	MT8888	
M957	SiliconSys	SSI75T957A	
M980	**SiliconSys**	**SSI75T980**	**(3781)**
M981	SiliconSys	SSI75T981	
M982	SiliconSys	SSI75T982	

Texas Instruments

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN74LS195	Rochester	93L00	
UA9636A	National	DS9636A	
µA2240	Exar	XR2240	
	Motorola	MC1455	
µA709	Motorola	MC1709	
	National	LM709	
♦ µA711	Rochester	µA711	
µA723	Fujitsu	MB3752	
	Harris	CA0723	
	Motorola	MC1723	
	National	µA723	
		LM723	
	Philips	µA723	
	SGS-Thomson		
		LM723	
µA733	Philips	µA733	
µA741	AD	OP02	
	Motorola	MC1741	
	National	µA741	
		LM741	
	NJR	NJM741	
	Philips	µA741	
		µA741C	
	SGS-Thomson		
		µA741	
µA747	AD	OP04	
	Motorola	MC1747	
	National	µA747	
		LM747	
	Philips	µA747C	
µA748	Motorola	MC1748	
		MC748	
	National	µA748	
		LM748	
	SGS-Thomson		
		µA748	
µA78L02	NJR	NJM78L02	
µA78L05	Motorola	MC78L05	
	National	µA78L05	
		LM78L05	
	NJR	NJM78L05	
	Panasonic	AN78L05	
	Samsung	MC78L05	
	Toshiba	TA78L005	
µA78L06	NJR	NJM78L06	
	Panasonic	AN78L06	
	Toshiba	TA78L006	
µA78L08	Motorola	MC78L08	
		MC78L09	
	NJR	NJM78L08	
	Panasonic	AN78L08	
	Samsung	MC78L08	
	Toshiba	TA78L008	
µA78L09	National	µA78L09	
		LM78L09	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
μA78L09			(Cont'd)
	NJR	NJM78L09	
	Panasonic	AN78L09	
	Toshiba	TA78L009	
μA78L10	Panasonic	AN78L10	
	Toshiba	TA78L010	
μA78L12	Motorola	MC78L12	
	National	μA78L12	
		LM78L12	
	NJR	NJM78L12	
	Panasonic	AN78L12	
	Samsung	MC78L12	
	Toshiba	TA78L012	
μA78L15	Motorola	MC78L15	
	National	μA78L15	
		LM78L15	
	NJR	NJM78L15	
	Panasonic	AN78L15	
	Samsung	MC78L15	
	Toshiba	TA78L015	
μA78M05	Motorola	MC78M05	
	National	μA78M05	
		LM78M05	
	NJR	NJM78M05	
	Samsung	MC78M05	
	SGS-Thomson		
		L78M05	
μA78M06	Motorola	MC78M06	
	National	μA78M06	
		LM78M06	
	NJR	NJM78M06	
	Panasonic	AN78M06	
	Samsung	MC78M06	
	SGS-Thomson		
		L78M06	
μA78M08	Motorola	MC78M08	
	National	μA78M08	
		LM78M08	
	NJR	NJM78M08	
	Panasonic	AN78M08	
	Samsung	MC78M08	
	SGS-Thomson		
		L78M08	
♦ μA78M08	Rochester	78M08	
μA78M10	Panasonic	AN78M10	
	Samsung	MC78M10	
μA78M12	Motorola	MC78M12	
	National	μA78M12	
		LM78M12	
	NJR	NJM78M12	
	Panasonic	AN78M12	
	Samsung	MC78M12	
	SGS-Thomson		
		L78M12	
μA78M15	Motorola	MC78M15	
	National	μA78M15	
		LM78M15	
	NJR	NJM78M15	
	Panasonic	AN78M15	
	Samsung	MC78M15	
	SGS-Thomson		
		L78M15	
μA78M20	Motorola	MC78M20	
	NJR	NJM78M20	
	Panasonic	AN78M20	
	Samsung	MC78M20	
	SGS-Thomson		
		L78M20	
μA78M24	Motorola	MC78M24	
	National	μA78M24	
		LM78M24	
	NJR	NJM78M24	
	Samsung	MC78M24	
	SGS-Thomson		
		L78M24	
μA7805	GoldStar	GL7805	
	Linfinity		
	Micro	SG7805	
	National	μA7805	
		LM7805	
	NJR	NJM7805	
	Panasonic	AN7805	
	Samsung	MC7805	
	SGS-Thomson		
		μA7805	
		L7805	
	Unitrode	UC7805	
μA7806	GoldStar	GL7806	
	Linfinity		
	Micro	SG7806	
	Motorola	MC7808	
			(Continued)
μA7806			(Cont'd)
	National	μA7806	
		LM7806	
	NJR	NJM7806	
	Panasonic	AN7806	
	Samsung	MC7806	
	SGS-Thomson		
		μA7806	
		L7806	
μA7808	GoldStar	GL7808	
	Linfinity		
	Micro	SG7808	
	Motorola	MC7808	
	National	μA7808	
		LM7808	
	NJR	NJM7808	
	Panasonic	AN7808	
	Samsung	MC7808	
	SGS-Thomson		
		L7808	
μA7810	Panasonic	AN7810	
	Samsung	MC7810	
μA7812	GoldStar	GL7812	
	Linfinity		
	Micro	SG7812	
	Motorola	MC7812	
	National	μA7812	
		LM7812	
	NJR	NJM7812	
	Samsung	MC7812	
	SGS-Thomson		
		L7812	
	Unitrode	UC7812	
μA7815	GoldStar	GL7815	
	Linfinity		
	Micro	SG7815	
	National	μA7815	
		LM7815	
	NJR	NJM7815	
	Samsung	MC7815	
	SGS-Thomson		
		L7815	
	Unitrode	UC7815	
μA7818	Linfinity		
	Micro	SG7818	
	Motorola	MC7818	
	National	μA7818	
		LM7818	
	NJR	NJM7818	
	Panasonic	AN7818	
	Samsung	MC7818	
	SGS-Thomson		
		L7818	
μA7824	GoldStar	GL7824	
	Linfinity		
	Micro	SG7824	
	National	μA7824	
		LM7824	
	NJR	NJM7824	
	Panasonic	AN7824	
	Samsung	MC7824	
	SGS-Thomson		
		L7824	
μA79M05	Motorola	MC79M05	
	National	μA79M05	
		LM79M05	
	NJR	NJM79M05	
	Samsung	MC79M05	
μA79M06	Motorola	MC7906	
	NJR	NJM79M06	
	Samsung	MC79M06	
♦ μA79M06	Rochester	79M06	
μA79M08	Motorola	MC79M08	
	National	μA79M08	
		LM79M08	
	NJR	NJM79M08	
	Samsung	MC79M08	
μA79M12	Motorola	MC79M12	
	National	μA79M12	
		LM79M12	
	NJR	NJM79M12	
	Samsung	MC79M12	
μA79M15	Motorola	MC79M15	
	National	μA79M15	
		LM79M15	
	NJR	NJM79M15	
	Samsung	MC79M15	
μA79M24	Motorola	MC7924	
μA7905	GoldStar	GL7905	
	Linfinity		
	Micro	SG7905	
	Motorola	MC7905	
	National	μA7905	
		LM7905	
			(Continued)
μA7905			(Cont'd)
	NJR	NJM7905	
	Panasonic	AN7905	
	Samsung	MC7905	
	SGS-Thomson		
		μA7905	
		L7905	
	Unitrode	UC7905	
μA7906	Motorola	MC7906	
	NJR	NJM7906	
	Panasonic	AN7906	
	Samsung	MC7906	
♦ μA7906	Rochester	7906	
μA7908	Linfinity		
	Micro	SG7908	
	Motorola	MC7908	
	National	μA7908	
		LM7908	
	NJR	NJM7908	
	Samsung	MC7908	
	SGS-Thomson		
		L7908	
μA7912	GoldStar	GL7912	
	Linfinity		
	Micro	SG7912	
	Motorola	MC7912	
	National	μA7912	
		LM7912	
	NJR	NJM7912	
	Panasonic	AN7912	
	Samsung	MC7912	
	SGS-Thomson		
		μA7912	
		L7912	
	Unitrode	UC7912	
μA7915	GoldStar	GL7915	
	Linfinity		
	Micro	SG7915	
	Motorola	MC7915	
	National	μA7915	
		LM7915	
	NJR	NJM7915	
	Panasonic	AN7915	
	Samsung	MC7915	
	SGS-Thomson		
		μA7915	
		L7915	
	Unitrode	UC7915	
μA7918	Linfinity		
	Micro	SG7918	
	Motorola	MC7918	
	NJR	NJM7918	
	Panasonic	AN7918	
	Samsung	MC7918	
	SGS-Thomson		
		L7918	
μA7924	GoldStar	GL7924	
	Motorola	MC7924	
	NJR	NJM7924	
	Panasonic	AN7924	
	SGS-Thomson		
		L7924	
μA7952	SGS-Thomson		
		L7952	
μA9636	Motorola	MC3488	
	National	μA9636	
		DS9636	
μA9637	Motorola	MC3486	
	National	μA9637	
		DS9637	
♦ μA9637	Rochester	μA9637	
μA9637A	National	DS9637A	
μA9638	Motorola	MC3487	
	National	DS9638	
♦ μA9638	Rochester	μA9638	
μA9639	National	DS9639	
		DS9639A	
ACT2140	Mosel-Vitelic	V63C328	
ADC0801	GEC Plessey	ZN447	
	National	ADC0801	
ADC0802	GEC Plessey	ZN448	
	National	ADC0802	
ADC0803	GEC Plessey	ZN448	
	Harris	ADC0803	
	National	ADC0803	
	Philips	ADC0803	
ADC0804	GEC Plessey	ZN449	
	Harris	ADC0804	
	MicroPwr	MP7574	
	National	ADC0804	
	Philips	ADC0804	
ADC0805	GEC Plessey	ZN449	
	National	ADC0805	
			(Continued)
ADC0808	GEC Plessey	ZN437	
	MicroLinear	ML2258	
	National	ADC0808	
		ADC0808CJ	
ADC0808F	MicroLinear	ML2258BC	
ADC0808M	MicroLinear	ML2258BM	
ADC0808N	MicroLinear	ML2258BI	
ADC0809	GEC Plessey	ZN437	
	MicroLinear	ML2258	
	National	ADC0809	
ADC0809F	MicroLinear	ML2258CC	
ADC0809N	MicroLinear	ML2258CI	
ADC0820	AD	ADC82	
		AD7820	
	Crystal	CS7280	
	MicroNet	**MN5100**	**(3690)**
		MN5101	**(3690)**
		MN5120	
		MN5130	**(3690)**
		MN5140	**(3690)**
	National	ADC0820	
ADC0831	GEC Plessey	ZN509	
	MicroLinear	ML2281	
	National	ADC0831	
ADC0831AC	MicroLinear	ML2281CC	
ADC0831AI	MicroLinear	ML2281CI	
ADC0831BC	MicroLinear	ML2281BC	
ADC0831BI	MicroLinear	ML2281BI	
ADC0832	MicroLinear	ML2282	
	National	ADC0832	
ADC0832AC	MicroLinear	ML2282CC	
ADC0832AI	MicroLinear	ML2282CI	
ADC0832BC	MicroLinear	ML2282BC	
ADC0832BI	MicroLinear	ML2282BI	
ADC0834	MicroLinear	ML2284	
	National	ADC0834	
ADC0834AC	MicroLinear	ML2284CC	
ADC0834AI	MicroLinear	ML2284CI	
ADC0834BC	MicroLinear	ML2284BC	
ADC0834BI	MicroLinear	ML2284BI	
ADC0838	MicroLinear	ML2288	
	National	ADC0838	
ADC0838AC	MicroLinear	ML2288CC	
ADC0838AI	MicroLinear	ML2288CI	
ADC0838BI	MicroLinear	ML2288BI	
ADC0838CC	MicroLinear	ML2288BC	
AD7524	AD	AD7524	
	Analog Micros	PM7524	
AD7528	AD	AD7528	
		PM7528	
AD7533	AD	AD7520	
		AD7533	
		PM7533	
AM26LS31	AMD	AM26LS31	
	National	DS26LS31	
	Philips	AM26LS31	
AM26LS32	AMD	AM26LS32	
	National	DS26LS32	
	Philips	AM26LS32	
AM26LS32A	National	DS26LS32A	
AM26LS33	AMD	AM26LS33	
	National	DS26LS33	
AM26LS33A	National	DS26LS33A	
AM26S10	National	DS26S10	
AM26S11	National	DS26S11	
AM29818A	AMD	AM29C818AJC	
	TI	SN74ALS29818FN	
DS3680	National	DS3680	
♦ DS7831	Rochester	7831	
♦ DS7842	Rochester	7842	
DS8820	National	DS8820	
DS8830	National	DS8830	
DS8831	National	DS8831	
DS8832	National	DS8832	
EP330	Intel	85C060	
		85C220	
	Lattice	GAL16V8	
		GAL18V10	
	Philips	PLC16V8	
		PLC18V8	
EP610	Intel	PLD610	
		85C060	
		85C220	
EP630	Altera	EP610	
		EP630	
	Intel	PLD610	
		85C060	
EP910	Intel	PLD910	
		85C090	
ICL7135	AD	ADCEK12	
	Harris	ICL7135	
	MicroPwr	MP7138	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
ICL7135			(Cont'd)
	Motorola	MC14433	
	National	ADC3511	
		ADC3711	
	Siliconix	LD110	
		LD111	
		LD120	
		LD121	
		SI7135	
	TeledyneC	TSC14433	
		TSC7135	
LF198	**Burr-Brown**	**SHC298**	**(3471)**
	Harris	HA2420	
	National	LF198	
LF347	Motorola	LF347	
		MC34004	
	National	LF347	
LF351	AD	OP15	
	Harris	CA3140	
	Motorola	MC34001	
	National	LF351	
	NEC	μPC801	
LF353	AD	OP215	
	Harris	CA3240	
	Motorola	MC34002	
	National	LF353	
LF398	**Burr-Brown**	**SHC298**	**(3471)**
	National	LF398	
LF411	Harris	CA3140	
	Motorola	LF411	
	National	LF411	
LF412	Harris	CA3140	
		CA3240	
	Motorola	LF412	
	National	LF412	
LM101	AD	OP77	
	LinearTech	LM101	
	Linfinity Micro	SG101	
♦ LM101	Rochester	LM101	
LM101A	National	LM101A	
♦ LM106	Rochester	LM106	
LM107	LinearTech	LM107	
	Linfinity Micro	SG107	
	National	LM107	
♦ LM107	Rochester	LM107	
LM108	LinearTech	LM108	
	National	LM108	
LM108AJGB	Lattice	LM108AJ8/883	
	Motorola	108A/BJAJC	
	National	LM108AJ-8/883	
	Raytheon	LM108ADE/883	
LM108ALB	AD	PM108AJ/883C	
	Lattice	LM108AH/883	
	Motorola	108A/BGAJC	
	National	μA108AHMQB	
		LM108AH/883	
	Raytheon	LM108AT/883B	
LM108JGB	Lattice	LM108J8/883	
	Motorola	108/BPAJC	
	National	LM108J-8/883	
	Raytheon	LM108DE/883	
LM108LB	AD	PM108J/883C	
	Lattice	LM108H/883	
	Motorola	108/BGAJC	
	National	μA108HMQB	
		LM108H/883	
	Raytheon	LM108T/883B	
LM111	LinearTech	LM111	
		LT1011	
		LT111	
	Linfinity Micro	SG111	
	National	LM111	
♦ LM111	Rochester	LM111	
LM118	Motorola	MC1741	
LM118JGB	Lattice	LM118J8/883	
	National	LM118J-8/883	
LM118LB	Lattice	LM118LH/883	
	National	LM118H/883	
LM124	AD	OP11	
		OP421	
	LinearTech	LT1014	
	Motorola	LM124	
	National	LM124	
	Philips	LM124	
	Raytheon	LM124	
	SGS-Thomson	LM124	
LM124FKB	Linfinity Micro	SG124L/883B	
	Motorola	124/BCAJC	
	National	μA124LMQB	
		LM124E/883	
LM124J	Linfinity Micro	SG124J	
	Motorola	LM124J	
	National	μA124DM	
		LM124J	
	Philips	LM124F	
	Raytheon	LM124J	
LM124JB	Linfinity Micro	SG124J/883B	
	Motorola	124/BCAJC	
	National	μA124DMQB	
		LM124J/883	
	Philips	LM124/BCA	
	Raytheon	LM124J/883B	
	SGS-Thomson	LM124J7B/C	
LM124WB	Linfinity Micro	SG124F/883B	
	National	μA124FMQB	
	Philips	LM124/BDA	
LM13600	NJR	NJM13600	
LM137	Linfinity Micro	SG137	
LM13700	NJR	NJM13700	
LM139	**AD**	**PM139**	**(3539)**
	Motorola	LM139	
	National	LM139	
	Raytheon	LM139	
	SGS-Thomson	LM139	
LM139AFKB	AD	PM139ARC/883C	
LM139AJ	AD	PM139AY	
	Motorola	LM139AJ	
	National	LM139AJ	
	Philips	LM139AF	
	Raytheon	LM139AJ	
LM139AJB	AD	PM139AY/883C	
	Motorola	139A/BCAJC	
	National	LM139AJ/883	
	Philips	LM139A/BCA	
	Raytheon	LM139AJ/883B	
	SGS-Thomson	LM139AJ7B/C	
LM139FKB	National	μA139LMQB	
LM139J	AD	PM139Y	
	Motorola	LM139J	
	National	μA139DM	
	Philips	LM139F	
	Raytheon	LM139J	
LM139JB	AD	PM139Y/883C	
	Motorola	139/BCAJC	
	National	μA139DMQB	
		LM139J/883	
	Philips	LM139/BCA	
	Raytheon	LM139J/883B	
	SGS-Thomson	LM1397J7B/C	
LM139WB	National	μA139FMQB	
LM148	AD	PM148	
	LinearTech	LT1014	
	National	LM148	
	SGS-Thomson	LM148	
LM148FKB	National	LM148E/883	
LM148J	AD	PM148Y	
	National	μA148DM	
	Raytheon	LM148J	
LM148JB	AD	PM148Y/883C	
	National	μA148DMQB	
		LM148J/883	
	Raytheon	LM148J/883B	
	SGS-Thomson	LM148J7B/C	
LM158	AD	OP14	
		OP290	
	LinearTech	LT1013	
	Motorola	LM158	
	National	LM158	
	Philips	SE532	
	SGS-Thomson	LM158	
LM158JG	Motorola	LM158J	
	National	LM158J	
LM158JGB	Motorola	158/BPAJC	
	National	LM158J/883	
	SGS-Thomson	LM158J7B/C	
LM185	LinearTech	LM185	
	National	LM185	
LM193	Harris	CA3290	
	Motorola	LM193	
	National	LM193	
	SGS-Thomson	LM193	
LM193JG	Philips	LM193FE	
LM193LB	National	LM193H/883	
LM201	AD	OP177	
	Motorola	LM201	
	National	LM201	
	SGS-Thomson	LM201	
LM207	AD	OP177	
	Linfinity Micro	SG207	
	National	LM207	
LM211	Linfinity Micro	SG211	
	National	LM211	
	Philips	LM211	
	SGS-Thomson	LM211	
LM217	Linfinity Micro	SG217	
	Motorola	LM217	
	National	LM217	
LM218	Motorola	MC1741	
	National	LM218	
LM224	AD	OP421	
	Linfinity Micro	SG224	
	Motorola	LM224	
	National	LM224	
	Philips	LM224	
	SGS-Thomson	LM224	
LM237	Linfinity Micro	SG237	
	Motorola	LM237	
	National	LM137	
		LM237	
LM239	Motorola	LM239	
	National	LM239	
	Philips	LM239	
		LM239A	
	SGS-Thomson	LM239	
LM248	AD	OP421	
	National	LM248	
	SGS-Thomson	LM248	
LM258	AD	OP221	
	Motorola	LM258	
	National	LM258	
	Philips	LM258	
		SA532	
	SGS-Thomson	LM258	
LM2900	Motorola	LM2900	
	National	LM2900	
	NJR	NJM2900	
LM2901	AD	CMP04	
	Harris	CA3290	
	Motorola	LM2901	
	National	LM2901	
	NJR	NJM2901	
	Philips	LM2901	
	SGS-Thomson	LM2901	
LM2902	AD	OP421	
	Motorola	LM2902	
	National	LM2902	
	NJR	NJM2902	
	Philips	LM2902	
		SA534	
	SGS-Thomson	LM2902	
LM2903	Harris	CA3290	
	Motorola	LM2903	
	National	LM2903	
	NJR	NJM2903	
	Philips	LM2903	
	SGS-Thomson	LM2903	
LM2904	AnalogSys	MA336	
		MA372	
	Motorola	LM2904	
	National	LM2904	
	NJR	**NJM2904**	**(3704)**
	Philips	LM2904	
	SGS-Thomson	LM2904	
LM2907	National	LM2907	
LM2917	National	LM2917	
LM293	Harris	CA3290	
	Motorola	LM293	
	National	LM293	
	Philips	LM293	
	SGS-Thomson	LM293	
LM293A	Philips	LM293	
LM2930	National	LM2930	
LM2931	National	LM2931	
LM301	AD	OP177	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	LM301	
	National	LM301	
	SGS-Thomson	LM301	
♦ LM306	Rochester	LM306	
LM307	AD	OP177	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	LM307	
	National	LM307	
♦ LM307	Rochester	LM307	
LM308	AD	PM1008	
		PM308	
LM311	LinearTech	LM311	
		LT1011	
		LT311	
	Motorola	LM311	
	National	LM311	
	NJR	NJM311	
	Panasonic	AN1311	
	Philips	LM311	
	SGS-Thomson	LM311	
♦ LM311	Rochester	LM311	
LM317	LinearTech	LM317	
	Motorola	LM317	
	National	LM317	
	Unitrode	UC317	
LM318	AnalogSys	MA332	
		MA362	
	Harris	HA2515	
	LinearTech	LM318	
		LT318	
	Motorola	MC1741	
	National	LM318	
	NEC	μPC159	
	NJR	**NJM318**	**(3704)**
	SGS-Thomson	LM318	
LM323	LinearTech	LM323	
		LT323	
LM324	AD	OP11	
		OP421	
	ECI Semi	324	
	Motorola	LM324	
	National	LM324	
	NJR	NJM324	
	Panasonic	AN1324	
		AN6564	
	Philips	LM324	
		LM324A	
	Raytheon	LM324	
	SGS-Thomson	LM324	
LM330	National	LM330	
LM3302	AD	CMP04	
	Harris	CA3290	
		LM3302	
	Motorola	MC3302	
	National	LM3302	
	SGS-Thomson	MC3302	
LM336	National	LM336	
LM337	LinearTech	LM337	
	Motorola	LM337	
	National	LM337	
	SGS-Thomson	LM337	
	Unitrode	UC337	
LM339	AD	CMP04	
	ECI Semi	339	
	Motorola	LM339	
	National	LM339	
	NJR	NJM2901	
	Philips	LM339	
	SGS-Thomson	LM339	
LM340	Motorola	LM340	
		MC78L05	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
LM340	Motorola		(Cont'd)
		MC78L08	
		MC78L12	
		MC78L15	
		MC78L18	
		MC78L24	
		MC7808	
		MC7818	
LM348	AD	OP11	
		PM248	
	AnalogSys	MA374	
	Motorola	LM348	
		MC4741	
	National	LM348	
	Raytheon	LM348	
		RC4156	
		RC4157	
	SGS-Thomson	LM348	
LM350	LinearTech	LM350	
		LT350	
LM358	AD	OP221	
	AnalogSys	MA336	
		MA372	
	Motorola	LM358	
	National	LM358	
	NJR	**NJM2904**	(3704)
	Panasonic	AN1358	
		AN6562	
	Philips	LM358	
		NE532	
	SGS-Thomson	LM358	
LM358A	Philips	NE532	
LM385	Astec Semi	AS1004	
	ECI Semi	385	
	LinearTech	LM385	
	National	LM385	
LM3900	Motorola	LM3900	
	National	LM3900	
	NJR	NJM3900	
	Raytheon	LM3900	
LM393	Motorola	LM393	
	National	LM393	
	NJR	NJM2903	
	Panasonic	AN1393	
		AN6914	
	Philips	LM393	
		LM393A	
	SGS-Thomson	LM393	
LM393A	Philips	LM393A	
LM4250	Panasonic	AN4250	
LM607	AD	OP177	
LM748	Linfinity Micro	SG201	
	National	LM748	
LM833	Panasonic	AN1883	
LP311	National	LP311	
LP339	National	LM339	
		LP339	
LTC1044	**Harris**	**ICL7660**	(3638)
	LinearTech	LTC1044	
LTC1052	LinearTech	LTC1052	
LT1001	AD	OP177	
		OP77	
LT1004	Astec Semi	AS1004	
	ECI Semi	1004	
	LinearTech	LT1004	
	National	LM385	
LT1007	AD	OP27	
	LinearTech	LT1007	
LT1008	AD	PM1008	
	LinearTech	LT1008	
LT1009	LinearTech	LT1009	
	National	LM336	
LT1011	LinearTech	LT1011	
LT1012	AD	PM1012	
LT1013	**Burr-Brown**	**OPA1013**	(3457)
	Lattice	LT1013MJ8/883	
	LinearTech	LT1013	
LT1016	LinearTech	LT1016	
LT1028	Lattice	LT1028MH/883	
	LinearTech	LT1028	
LT1036	LinearTech	LT1036	
LT1037	AD	OP37	
	LinearTech	LT1037	
LT1054	Unitrode	LT1054	
		UC1054	
LT1070	LinearTech	LT1070	
L298	Allegro Micro	UDN2993	
	Unitrode	L298	
MAX232	National	DS14C232	
MCT2	Toshiba	TLP631	
MCT2E	Toshiba	TLP631	
MC1445	Motorola	MC1445	
MC1458	AD	OP14	
	AnalogSys	MA336	
		MA372	
	Motorola	MC1458	
	National	LM1458	
	NJR	NJM1458	
	Panasonic	AN1458	
		AN6572	
	Philips	MC1458	
	SGS-Thomson	MC1458	
MC1488	Lansdale	SL1488	
	National	DS1488	
MC1489	Lansdale	SL1489	
	National	DS1489	
MC155	National	LM1558	
MC1558	AD	OP14	
	LinearTech	LT1013	
	Motorola	MC1558	
	SGS-Thomson	MC1558	
MC3303	AD	OP421	
	Harris	CA5470	
	Motorola	MC3303	
	National	LM3303	
	SGS-Thomson	MC3303	
MC33071	Harris	CA3140	
MC33072	Harris	CA3240	
MC3346	**Harris**	**CA3046**	(3637)
MC3403	AD	OP421	
	AnalogSys	MA374	
	Harris	CA5470	
	Motorola	MC3403	
	NJR	NJM3403	
	Raytheon	RC3403A	
	SGS-Thomson	MC3403	
MC34060	Motorola	MC34060	
MC3423	Motorola	MC3423	
MC3470	Motorola	MC3470	
MC3486	National	DS3486	
MC3487	National	DS3487	
MC3503	SGS-Thomson	MC3503	
MC79L05	Motorola	MC79L05	
	National	LM79L05	
	NJR	NJM79L05	
	Panasonic	AN79L05	
	Samsung	MC79L05	
MC79L12	Motorola	MC79L12	
	National	LM79L12	
	NJR	NJM79L12	
	Panasonic	AN79L12	
	Samsung	MC79L12	
MC79L15	Motorola	MC79L15	
	National	LM79L15	
	NJR	NJM79L15	
	Panasonic	AN79L15	
	Samsung	MC79L15	
MF10	National	MF10	
MF4	National	MF4	
MP5501	Raytheon	REF01	
MP5502	Raytheon	REF-02	
M5228	Panasonic	NJM4741	
NE5532	AD	OP270	
		SSM2139	(3529)
	AnalogSys	MA372	
	Exar	XR5532	
	Harris	HA5102	
	NJR	**NJM5532**	(3704)
	Philips	NE5532	
	Raytheon	RC5532	
NE5533	Philips	NE5533	
NE5533A	Philips	NE5533	
NE5534	AD	OP37	
		SSM2134	(3529)
	AnalogSys	MA332	
		MA362	
	Exar	XR5534	
	NJR	**NJM5534**	(3704)
	Philips	NE5534	
	Raytheon	RC5534	
		RC5534A	
NE555	Motorola	NE555	
	National	LM556	
NE555			(Cont'd)
	Philips	NE555	
	Samsung	NE556	
	SGS-Thomson	NE555	
NE556	Harris	ICM7556	
	Motorola	NE556	
	Philips	NE556	
	SGS-Thomson	NE556	
NE592	Motorola	NE592	
	National	LM592	
	Philips	NE592	
♦ NS54185	Rochester	54185	
N8T13	National	DS75121	
N8T23	National	DS75123	
N8T24	National	DS75124	
OP07	AD	AD510	
		AD517	
		OP07	
	Harris	HA5130	
		HA5135	
	LinearTech	LT1001	
		OP07	
	National	µA714	
		LH0044	
		OP07	
	NEC	µPC354	
	NJR	NJMOP07	
OP177	AD	OP177	
OP215	AD	OP215	
OP27	AD	OP27	
	Harris	HA5127	
	LinearTech	LT1007	
		OP27	
	Motorola	OP27	
OP27A	AD	OP27AZ/883C	
	Lattice	OP27AJ8/883	
	Raytheon	OP27ADE/883B	
OP27C	AD	OP27CZ/883C	
	Lattice	OP27CJ8/883	
	Raytheon	OP27CDE/883B	
OP290	AD	OP290	
OP37	AD	OP37	
	Harris	HA5137	
	LinearTech	LT1037	
		OP37	
OP37A	AD	OP37AZ/883C	
	Lattice	OP37AJ8/883	
	Raytheon	OP37ADE/883B	
OP37C	AD	OP37CZ/883C	
	Lattice	OP37CJ8/883	
	Raytheon	OP37CDE/883B	
OP420	AD	OP420	
PAL12L10	ICT	PEEL20CG10	
PAL14L4	ICT	PEEL20CG10	
PAL16L6	ICT	PEEL20CG10	
PAL16L8	Cypress	PALC16L8	
	Intel	85C220	
	ICT	PEEL18CV8	
PAL16L8A	Cypress	PALC16L8	
PAL16RP4	ICT	PEEL18CV8	
PAL16RP6	ICT	PEEL18CV8	
PAL16RP8	ICT	PEEL18CV8	
PAL16R4	Cypress	PALC16R4	
	Intel	85C220	
	ICT	PEEL18CV8	
PAL16R4A	Cypress	PALC16R4	
PAL16R6	Cypress	PALC16R6	
	Intel	85C220	
	ICT	PEEL18CV8	
PAL16R6A	Cypress	PALC16R6	
PAL16R8	Cypress	PALC16R8	
	Intel	85C220	
	ICT	PEEL18CV8	
PAL16R8A	Cypress	PALC16R8	
PAL18L4	ICT	PEEL20CG10	
PAL18P8	ICT	PEEL18CV8	
PAL20L2	ICT	PEEL20CG10	
PAL20L8	ICT	PEEL20CG10	
PAL20R4	ICT	PEEL20CG10	
PAL20R6	ICT	PEEL20CG10	
PAL20R8	ICT	PEEL20CG10	
PAL22V10	AMD	PAL22V10	
PM248	AD	PM248	
RC4136	AD	OP07	
		OP09	
	Exar	XR4136	
	Motorola	MC3403	
	National	LM4136	
	Raytheon	RC4136	
RC4558	AD	OP270	
	AnalogSys	MA336	
		MA372	
	Motorola	MC4558	
	National	LM833	
		LM883	
	NJR	**NJM4558**	(3704)
	Panasonic	AN4558	
		AN6552	
	Raytheon	RC4558	
	SGS-Thomson	MC4558	
RC4559	AD	OP270	
	AnalogSys	MA336	
		MA372	
	Raytheon	RC4559	
RM4136	AD	OP09	
RM4136FKB	AD	PM4136RC/883C	
RM4136J	National	µA4136DM	
	Raytheon	RM4136DC	
RM4136JB	National	µA4136DMQB	
	Raytheon	RM4136DC/883B	
RM4558	AD	OP270	
RM4558JG	Raytheon	RM4556DE	
RM4558JGB	Raytheon	RM4558DE/883B	
RM4559	Raytheon	RM4559DE/883B	
RV4558	SGS-Thomson	MC4558	
RV74558	AD	OP270	
SA555	National	LM555	
	Philips	SA555	
	SGS-Thomson	SA555	
SA556	Harris	ICM7556	
	National	LM556	
	Philips	SA556	
	SGS-Thomson	SA556	
SE5534	AD	OP37	
	Philips	SE5534	
SE555	National	LM555	
	Philips	SE555	
SE555JG	Motorola	MC1555U	
	National	µA555RM	
		LM555J	
	Philips	SE555FE	
SE555JGB	Motorola	1555/BPAJC	
	National	µA555RMQB	
		LM555J/883	
	Philips	555/BPA	
SE555LB	Motorola	1555/BGAJC	
	National	µA555HMQB	
		LM555H/883	
SE556	Harris	ICM7556	
	National	LM556	
	Philips	SE556	
	SGS-Thomson	SE556	
SE556J	National	LM556J	
	Philips	SE556-1F	
SE556JB	Linfinity Micro	556-1/BCA	
	National	LM556J/883	
SE592	National	LM592	
♦ SG132	Rochester	SNG132	
♦ SG142	Rochester	SNG142	
SG1524	LinearTech	LT1524	
		SG1524	
	Linfinity Micro	SG1524	
SG2524	Harris	CA2524	
	Linfinity Micro	SG2524	
	Unitrode	UC2524	
SG2525	Unitrode	UC2525	
SG2527	Unitrode	UC2527	
♦ SG271	Rochester	SNG271	
SG3524	Harris	CA3524	
	LinearTech	LT3524	
		SG3524	
	Linfinity Micro	SG3524	
	National	LM3524	
	Philips	SG3524	
SG3525	LinearTech	LT3525	
		SG3525	
	Motorola	SG3525	
	Unitrode	UC3525	
SG3527	Motorola	SG3527	
	Unitrode	UC3527	
♦ SG42	Rochester	SNG42	
♦ SG52	Rochester	SNG52	
♦ SG62	Rochester	SNG62	
♦ SG92	Rochester	SNG92	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SL74192	Lansdale	SL74192	
SMJ27C010	AMD	AM27C010	
	ATMEL	AT27C010	
SMJ27C128	AMD	AM27C128	
		AM27128	
	Intel	MD27128A	
	Microchip	27C128	
	SEEQ	27128	
	Waferscale	WS27C128	
SMJ27C128-12			
	Waferscale	WS27C128-12DMB	
SMJ27C128-15			
	Intel	MD27128A-15B	
	Microchip	27C128-15BXA	
	Waferscale	WS27C128-15DMB	
SMJ27C128-17			
	Microchip	27C128-17BXA	
SMJ27C128-20			
	AMD	AM27128-20BXA	
	Intel	MD27128A-20B	
	Microchip	27C128-20BXA	
	SEEQ	DM27128-20MP	
SMJ27C128-25			
	AMD	AM27128-25BXA	
	Microchip	27C128-25BXA	
	SEEQ	DM27128-25MP	
SMJ27C128-30			
	AMD	AM27128-30BXA	
	Intel	MD27128A-30B	
SMJ27C210	ATMEL	AT27C1024	
SMJ27C256	AMD	AM27256	
	ATMEL	AM27256	
	Intel	MD27C256	
		MD27256	
	Microchip	27C256	
	Philips	27C256	
	SEEQ	DM27C256	
		DM27256	
	Waferscale	WS27C256	
SMJ27C256-15			
	ATMEL	AT27C256-15DM	
	Microchip	27C256-15BXA	
	Waferscale	WS27C256-15DMB	
SMJ27C256-17			
	Intel	MD27256-17B	
	Microchip	27256-17BXA	
SMJ27C256-20			
	AMD	AM27256-20BXA	
	ATMEL	AT27C256-20DM	
	Intel	MD27C256-20B	
	Microchip	27256-20BXA	
	Philips	27C256BXA-20	
	SEEQ	DM27C256-20MP	
		DM27256-20MP	
SMJ27C291	Microchip	27HC291	
SMJ27C49	Microchip	27HC64	
		27HC641	
SMJ27C512	AMD	AM27512	
	ATMEL	AT27C512	
	Intel	MD27512	
	Microchip	27C512	
	Waferscale	WS27C512	
SMJ27C512-20			
	ATMEL	AT27C512-20DM	
	Intel	MD27512-20B	
	Microchip	27C512-20BXA	
SMJ27C512-25			
	AMD	AM27512-25BXA	
	ATMEL	AT27C512-25DM	
	Intel	MD27512-25B	
	Microchip	27C512-25BXA	
SMJ27C512-30			
	AMD	AM27512-30BXA	
SMJ27128	Microchip	27C128	
SMJ2764	Microchip	27C64	
SMJ320C10	Microchip	DSP320C10	
SMJ32010	Microchip	DSP32010	
SMJ4C1024	MicronSemi	MT4C1024	
SMJ4C1024-10			
	EDI	EDI411024C100QB	
	MicronSemi	MT4C1024C-10/883C	
SMJ4C1024-12			
	EDI	EDI411024C120QB	
	MicronSemi	MT4C1024C-12/883C	
SMJ4C1024-15			
	EDI	EDI411024C150QB	
	MicronSemi	MT4C1024C-15/883C	
SMJ44C250	MicronSemi	MT4C4256	
SMJ44C251	MicronSemi	MT42C4256	
SMJ44C251A	MicronSemi	MT42C4256	
SMJ44C256	MicronSemi	MT4C4256	
SMJ44C256-10			
	EDI	EDI44256C100QB	
	MicronSemi	MT4C4256C-10/883C	
SMJ44C256-12			
	EDI	EDI44256C120QB	
	MicronSemi	MT4C4256C-12/883C	
SMJ44C256-15			
	EDI	EDI44256C150QB	
	MicronSemi	MT4C4256C-15/883C	
SMJ44100	MicronSemi	MT4C1004	
SMJ44100-10	EDI	EDI414096C100QB	
SMJ44100-12	EDI	EDI414096C120QB	
SMJ44100-80	EDI	EDI414096C80QB	
◆ SMJ4416	Rochester	4416	
SMJ44400	MicronSemi	MT4001	
SMJ44400-10	MicronSemi	MT4C4001CN-10/883C	
SMJ44400-12	MicronSemi	MT4C4001CN-12/883C	
SMJ44400-80	MicronSemi	MT4C4001CN-8/883C	
◆ SMJ4464	Rochester	4464	
◆ SMJ61CD16	Rochester	61CD16	
SMJ61CD64	Toshiba	TC5561	
◆ SMJ61CD64	Rochester	61CD64	
SMJ61CD74	Toshiba	TC5562	
◆ SMJ64C16	Rochester	64C16	
SMJ64C256	Toshiba	TC55464	
SMJ64C64	Toshiba	TC55416	
◆ SMJ64C64	Rochester	64C64	
◆ SMJ68CE16	Rochester	68CE16	
SMJ68CE256	Toshiba	TC55328	
SMJ68CE288	Toshiba	TC55329	
SMJ68CE64	Toshiba	TC5588	
◆ SMJ68CE64	Rochester	68CE64	
SMJ69CE72	Toshiba	TC5589	
◆ SMJ69CE72	Rochester	69CE72	
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◆ SNG93	Rochester	SNG93	
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	IDT	IDT54FCT241	
SNJ54BCT244			
	IDT	IDT54FCT244	
SNJ54BCT245			
	IDT	IDT54FCT245	
SNJ54BCT373			
	IDT	IDT54FCT373	
SNJ54BCT374			
	IDT	IDT54FCT374	
SNJ55188	Linfinity Micro	SG1488	
SNJ55189	Linfinity Micro	SG1489	
SNJ55234	Linfinity Micro	SG55234	
SNJ55236	Linfinity Micro	SG55235	
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SNJ5524	Linfinity Micro	SG5524	
SNJ55325	Linfinity Micro	SG55325	
SNJ55326	Linfinity Micro	SG55326	
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SNJ55463	Linfinity Micro	SG55463	
SNJ55464	Linfinity Micro	SG55464	
SNJ55470	Linfinity Micro	SG55470	
SNJ55471	Linfinity Micro	SG55471	
SNJ55472	Linfinity Micro	SG55472	
SNJ55473	Linfinity Micro	SG55473	
SNJ55474	Linfinity Micro	SG55474	
SN10016	Cypress	CY100E301	
◆ SN14941	Lansdale	ML941	
◆ SN151800	Lansdale	ML1800	
◆ SN151801	Lansdale	ML1801	
◆ SN151802	Lansdale	ML1802	
◆ SN151803	Lansdale	ML1803	
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◆ SN151805	Lansdale	ML1805	
◆ SN151806	Lansdale	ML1806	
◆ SN151807	Lansdale	ML1807	
◆ SN151808	Lansdale	ML1808	
◆ SN151809	Lansdale	ML1809	
◆ SN151810	Lansdale	ML1810	
◆ SN151811	Lansdale	ML1811	

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◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN151812	Lansdale	ML1812	
♦ SN151900	Lansdale	ML1900	
♦ SN151901	Lansdale	ML1901	
♦ SN151902	Lansdale	ML1902	
♦ SN151904	Lansdale	ML1904	
♦ SN151905	Lansdale	ML1905	
♦ SN151906	Lansdale	ML1906	
♦ SN151907	Lansdale	ML1907	
♦ SN151908	Lansdale	ML1908	
♦ SN151909	Lansdale	ML1909	
♦ SN151910	Lansdale	ML1910	
♦ SN151911	Lansdale	ML1911	
♦ SN151912	Lansdale	ML1912	
♦ SN158093	Lansdale	ML853	
	Rochester	9093	
♦ SN158094	Lansdale	ML856	
	Rochester	9094	
♦ SN158097	Lansdale	ML855	
	Rochester	9097	
♦ SN158099	Lansdale	ML852	
	Rochester	9099	
♦ SN15830	Lansdale	ML830	
	Rochester	930	
♦ SN15831	Lansdale	ML831	
♦ SN15832	Lansdale	ML832	
	Rochester	932	
♦ SN15833	Lansdale	ML833	
	Rochester	933	
♦ SN15834	Lansdale	ML834	
♦ SN15835	Lansdale	ML840	
	Rochester	935	
♦ SN15836	Lansdale	ML836	
	Rochester	936	
♦ SN15837	Lansdale	ML837	
	Rochester	937	
♦ SN15838	Lansdale	ML835	
♦ SN15841	Lansdale	ML841	
♦ SN15844	Rochester	944	
♦ SN15845	Lansdale	ML845	
	Rochester	945	
♦ SN15846	Lansdale	ML846	
	Rochester	946	
♦ SN15848	Lansdale	ML848	
♦ SN15849	Lansdale	ML849	
	Rochester	949	
♦ SN15850	Lansdale	ML850	
	Rochester	950	
♦ SN15851	Lansdale	ML851	
	Rochester	951	
♦ SN15857	Lansdale	ML857	
♦ SN15858	Lansdale	ML858	
♦ SN15861	Lansdale	ML861	
	Rochester	961	
♦ SN15862	Lansdale	ML862	
	Rochester	962	
♦ SN15863	Lansdale	ML863	
	Rochester	963	
♦ SN159093	Lansdale	ML953	
	Rochester	9093	
♦ SN159094	Lansdale	ML956	
	Rochester	9094	
♦ SN159097	Lansdale	ML955	
	Rochester	9097	
♦ SN159099	Lansdale	ML952	
	Rochester	9099	
♦ SN15930	Lansdale	ML930	
	Rochester	930	
♦ SN15931	Lansdale	ML931	
♦ SN15932	Lansdale	ML932	
	Rochester	932	
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	Rochester	933	
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♦ SN15935	Lansdale	ML940	
	Rochester	935	
♦ SN15936	Lansdale	ML936	
	Rochester	936	
♦ SN15937	Lansdale	ML937	
	Rochester	937	
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♦ SN15944	Lansdale	ML944	
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♦ SN15946	Lansdale	ML946	
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♦ SN15948	Lansdale	ML948	
♦ SN15949	Lansdale	ML949	
	Rochester	949	
♦ SN15950	Lansdale	ML950	
	Rochester	950	
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♦ SN15951	Lansdale	ML951	
♦ SN15957	Lansdale	ML957	
♦ SN15958	Lansdale	ML958	
♦ SN15961	Lansdale	ML961	
	Rochester	961	
♦ SN15962	Lansdale	ML962	
	Rochester	962	
♦ SN15963	Lansdale	ML963	
	Rochester	963	
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♦ SN29008	Rochester	9008	
♦ SN29009	Rochester	9009	
♦ SN29012	Rochester	9012	
♦ SN29016	Rochester	9016	
♦ SN29024	Rochester	9024	
SN4ALS1242	Rochester	74ALS1242	
♦ SN51804	Lansdale	ML1804	
SN52101	Motorola	LM101	
SN52104	Motorola	LM101	
SN52107	Motorola	MC1741	
SN52109	Motorola	LM109	
♦ SN52710	Lansdale	ML1710	
SN54ACT11000	TI	54ACT11000	
SN54ACT11002	TI	54ACT11002	
SN54ACT11004	TI	54ACT11004	
SN54ACT11008	TI	54ACT11008	
SN54ACT11010	TI	54ACT11010	
SN54ACT11011	TI	54ACT11011	
SN54ACT11020	TI	54ACT11020	
SN54ACT11021	TI	54ACT11021	
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SN54ACT11030	TI	54ACT11030	
SN54ACT11032	TI	54ACT11032	
SN54ACT11034	TI	54ACT11034	
SN54ACT11074	TI	54ACT11074	
SN54ACT11109	TI	54ACT11109	
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SN54ACT11253	TI	54ACT11253	
SN54ACT11257	TI	54ACT11257	
SN54ACT11280	TI	54ACT11273	
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SN54ACT11353	TI	54ACT11353	
SN54ACT11373	TI	54ACT11373	
SN54ACT11374	TI	54ACT11374	
SN54ACT11520	TI	54ACT11520	
SN54ACT11521	TI	54ACT11521	
SN54ACT11533	TI	54ACT11533	
SN54ACT11534	TI	54ACT11534	
SN54ACT11640	TI	54ACT11623	
		54ACT11640	
SN54AC11000	National	54AC11	
	TI	54AC11000	
SN54AC11002	TI	54AC11002	
SN54AC11004	TI	54AC11004	
SN54AC11008	TI	54AC11008	
SN54AC11010	TI	54AC11010	
SN54AC11011	TI	54AC11011	
SN54AC11020	TI	54AC11020	
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SN54AC11030	TI	54AC11030	
SN54AC11032	TI	54AC11032	
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SN54AC11074	TI	54AC11074	
SN54AC11109	TI	54AC11086	
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SN54AC11138	TI	54AC11138	
SN54AC11238	TI	54AC11208	
		54AC11238	
SN54AC11240	TI	54AC11239	
		54AC11240	
SN54AC11241	TI	54AC11241	
SN54AC11244	TI	54AC11244	
SN54AC11373	TI	54AC11353	
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SN54AC11374	TI	54AC11374	
SN54AC11520	TI	54AC11520	
SN54AC11521	TI	54AC11521	
SN54AC11533	TI	54AC11533	
SN54AC11534	TI	54AC11534	
SN54ALS00A	Motorola	54ALS00	
	Rochester	54ALS00	
♦ SN54ALS00A	Rochester	54ALS00	
SN54ALS01	TI	SN54ALS02	
SN54ALS02	TI	SN54ALS01	
SN54ALS03B	Motorola	54ALS04	
	TI	SN54ALS04B	
SN54ALS04B	Motorola	54ALS04	
	TI	SN54ALS03B	
SN54ALS05A	Motorola	54ALS08	
	TI	SN54ALS08	
SN54ALS08	Motorola	54ALS08	
	TI	SN54ALS05A	
SN54ALS09	Rochester	54ALS10	
	TI	SN54ALS10A	
SN54ALS10A	Rochester	54ALS10	
	TI	SN54ALS09	
♦ SN54ALS10A	Rochester	54ALS10	
SN54ALS1005	TI	SN54ALS1010A	
SN54ALS1010A	TI	SN54ALS1005	
♦ SN54ALS1011	Rochester	54ALS1011	
SN54ALS1034	TI	SN54ALS1035	
SN54ALS1035	TI	SN54ALS1034	
SN54ALS109A	National	DM54ALS11	
	TI	SN54ALS11A	
SN54ALS11A	National	DM54ALS11	
	TI	SN54ALS109A	
SN54ALS112A	TI	SN54ALS113A	
SN54ALS113A	TI	SN54ALS112A	
SN54ALS114A	Rochester	54ALS12	
	TI	SN54ALS12A	
♦ SN54ALS12	Rochester	54ALS12	
SN54ALS12A	Rochester	54ALS12	
	TI	SN54ALS114A	
♦ SN54ALS1242	Rochester	54ALS1242	
SN54ALS1244A	TI	SN54ALS1245A	
SN54ALS1245A	TI	SN54ALS1244A	
SN54ALS133	Motorola	54ALS138	
	Rochester	54ALS138	
	TI	SN54ALS138	
SN54ALS138	Motorola	54ALS138	
	Rochester	54ALS138	
	TI	SN54ALS133	
♦ SN54ALS138	Rochester	54ALS138	
SN54ALS139	TI	SN54ALS15A	
SN54ALS15A	TI	SN54ALS139	
SN54ALS151	TI	SN54ALS153	
SN54ALS153	TI	SN54ALS151	
SN54ALS157	TI	SN54ALS158	
SN54ALS158	TI	SN54ALS157	
SN54ALS161B	Motorola	54ALS161	
♦ SN54ALS1616	TI	SN54ALS162B	
SN54ALS163B	Motorola	54ALS163	
SN54ALS165	National	DM54ALS165	
♦ SN54ALS168B	National	DM54ALS166	
SN54ALS169B	National	DM54ALS174	
	Rochester	54ALS174	
	TI	SN54ALS174	
SN54ALS174	National	DM54ALS174	
	Rochester	54ALS174	
	TI	SN54ALS169B	
♦ SN54ALS174	Rochester	54ALS174	
♦ SN54ALS190	TI	SN54ALS175	
SN54ALS191	TI	SN54ALS193	
SN54ALS193	TI	SN54ALS191	
SN54ALS20A	Rochester	54ALS21	
	TI	SN54ALS21A	
SN54ALS21A	Rochester	54ALS21	
	TI	SN54ALS20A	
♦ SN54ALS21A	Rochester	54ALS21	
SN54ALS22A	TI	SN54ALS229A	
♦ SN54ALS2242	Rochester	54ASLS2242	
SN54ALS229A	TI	SN54ALS22A	
♦ SN54ALS231	Rochester	54ALS231	
SN54ALS234	IDT	IDT72403	
	Rochester	54ALS240	
	TI	SN54ALS240A	
SN54ALS235	IDT	IDT72413	
SN54ALS236	IDT	IDT72401	
SN54ALS240A	Rochester	54ALS240	
	TI	SN54ALS234	
♦ SN54ALS240A	Rochester	54ALS240	
SN54ALS241A	Rochester	54ALS241	
♦ SN54ALS241A	Rochester	54ALS241	
SN54ALS242B	TI	SN54ALS243A	
SN54ALS243A	TI	SN54ALS242B	
SN54ALS244A	Rochester	54ALS244	
♦ SN54ALS244A	Rochester	54ALS244	
SN54ALS245A	Rochester	54ALS245	
♦ SN54ALS245A	Rochester	54ALS245	
SN54ALS251	Rochester	54ALS251	
♦ SN54ALS251	Rochester	54ALS251	
SN54ALS253	Rochester	54ALS257	
	TI	SN54ALS257	
♦ SN54ALS253	Rochester	54ALS253A	
SN54ALS257	Rochester	54ALS257	
	TI	SN54ALS253	
♦ SN54ALS257	Rochester	54ALS257	
SN54ALS258	Rochester	54ALS258	
♦ SN54ALS258	Rochester	54ALS258	
SN54ALS259	TI	SN54ALS27	
SN54ALS27	TI	SN54ALS259	
SN54ALS273	TI	SN54ALS28A	
SN54ALS28A	TI	SN54ALS273	
♦ SN54ALS29806	Rochester	54ALS29806	
♦ SN54ALS29809	Rochester	54ALS29809	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54ALS29821	TI	SN54ALS29822	
SN54ALS29822	TI	SN54ALS29821	
SN54ALS29823	TI	SN54ALS29824	
SN54ALS29824	TI	SN54ALS29823	
SN54ALS29825	TI	SN54ALS29842	
SN54ALS29842	TI	SN54ALS29825	
SN54ALS29843	TI	SN54ALS299	
SN54ALS299	TI	SN54ALS29843	
SN54ALS30A	Rochester	54ALS30	
♦ SN54ALS30A	Rochester	54ALS30	
SN54ALS32	Motorola	54ALS32	
	Rochester	54ALS32	
♦ SN54ALS32	Rochester	54ALS32	
SN54ALS323	TI	SN54ALS33A	
SN54ALS33A	TI	SN54ALS323	
SN54ALS352	TI	SN54ALS353	
SN54ALS353	TI	SN54ALS352	
SN54ALS37A	Rochester	54ALS373	
	TI	SN54ALS373	
SN54ALS373	Rochester	54ALS373	
	TI	SN54ALS37A	
♦ SN54ALS373	Rochester	54ALS373	
SN54ALS374	Rochester	54ALS38	
	TI	SN54ALS38A	
SN54ALS38A	Rochester	54ALS38	
	TI	SN54ALS374	
♦ SN54ALS38A	Rochester	54ALS38	
♦ SN54ALS467	Rochester	54ALS467	
♦ SN54ALS468	Rochester	54ALS468	
SN54ALS520	Rochester	54ALS534	
	TI	SN54ALS534	
SN54ALS534	Rochester	54ALS534	
	TI	SN54ALS520	
♦ SN54ALS534	Rochester	54ALS534	
SN54ALS563A	TI	SN54ALS564A	
SN54ALS564A	TI	SN54ALS563A	
♦ SN54ALS568A	TI	SN54ALS569A	
SN54ALS573B	Motorola	54ALS573	
	Rochester	54ALS573	
♦ SN54ALS573B	Rochester	54ALS573	
SN54ALS574A	Motorola	54ALS574	
	Rochester	54ALS574	
♦ SN54ALS574A	Rochester	54ALS574	
SN54ALS576A	TI	SN54ALS580A	
SN54ALS580A	TI	SN54ALS576A	
♦ SN54ALS614	Rochester	54ALS614	
♦ SN54ALS615	Rochester	54ALS615	
♦ SN54ALS633	TI	SN54ALS632A	
SN54ALS640A	TI	SN54ALS645A	
♦ SN54ALS644A	Rochester	54ALS644A	
SN54ALS645A	TI	SN54ALS640A	
SN54ALS646	TI	SN54ALS648	
SN54ALS648	TI	SN54ALS646	
♦ SN54ALS649	Rochester	54ALS649	
SN54ALS652	National	DM54ALS651	
	Rochester	54ALS652	
♦ SN54ALS652	Rochester	54ALS652	
SN54ALS653	TI	SN54ALS688	
♦ SN54ALS678	Rochester	54ALS678	
SN54ALS688	TI	SN54ALS653	
SN54ALS74A	Rochester	54ALS74	
♦ SN54ALS74A	Rochester	54ALS74	
SN54ALS804A	Rochester	54ALS804	
♦ SN54ALS804A	Rochester	54ALS804	
SN54ALS805A	TI	SN54ALS808A	
SN54ALS808A	TI	SN54ALS805A	
SN54ALS832A	TI	SN54ALS857	
SN54ALS857	TI	SN54ALS832A	
SN54ALS86	TI	SN54ALS870	
SN54ALS870	TI	SN54ALS86	
SN54ALS873B	TI	SN54ALS874B	
SN54ALS874B	TI	SN54ALS873B	
♦ SN54ALS876A	TI	SN54ALS996	
SN54AS00	TI	SN54AS02	
SN54AS02	TI	SN54AS00	
SN54AS04	TI	SN54AS08	
SN54AS08	TI	SN54AS04	
SN54AS10	TI	SN54AS1000A	
SN54AS1000A	TI	SN54AS10	
SN54AS1004A	TI	SN54AS1032A	
SN54AS1032A	TI	SN54AS1004A	
SN54AS1034A	TI	SN54AS1036A	
SN54AS1036	Rochester	54AS1036	
SN54AS1036A	TI	SN54AS1034A	
SN54AS109	TI	SN54AS11	
SN54AS11	TI	SN54AS109	
SN54AS138	TI	SN54AS161	
SN54AS161	TI	SN54AS138	
SN54AS163	TI	SN54AS169A	
♦ SN54AS168	Rochester	54AS168	
SN54AS169A	TI	SN54AS163	
SN54AS174	TI	SN54AS175A	
SN54AS175A	TI	SN54AS174	
♦ SN54AS182	Rochester	54AS182	
♦ SN54AS1881	TI	SN54AS181B	
SN54AS194	TI	SN54AS20	
SN54AS20	TI	SN54AS194	
♦ SN54AS2299	TI	SN54AS21	
♦ SN54AS231	Rochester	54AS231	
SN54AS240	National	DM54AS240	
SN54AS241	TI	SN54AS242	
SN54AS242	TI	SN54AS241	
SN54AS244	TI	SN54AS245	
SN54AS245	TI	SN54AS244	
SN54AS250A	TI	SN54AS27	
♦ SN54AS2620	Rochester	54AS2620	
♦ SN54AS264	Rochester	54AS264	
SN54AS27	TI	SN54AS250A	
♦ SN54AS282	Rochester	54AS282	
SN54AS286	TI	SN54AS30	
SN54AS30	TI	SN54AS286	
SN54AS32	TI	SN54AS34	
SN54AS34	TI	SN54AS32	
SN54AS373	TI	SN54AS374	
SN54AS374	TI	SN54AS373	
SN54AS573	TI	SN54AS573A	
SN54AS573A	TI	SN54AS573	
SN54AS574	TI	SN54AS575	
SN54AS575	TI	SN54AS574	
SN54AS576	TI	SN54AS640	
♦ SN54AS621	Rochester	54AS621	
♦ SN54AS622	Rochester	54AS622	
SN54AS640	TI	SN54AS576	
SN54AS645	TI	SN54AS646	
SN54AS646	TI	SN54AS645	
♦ SN54AS648	TI	SN54AS651	
SN54AS652	TI	SN54AS74	
SN54AS74	TI	SN54AS652	
SN54AS756	TI	SN54AS760	
♦ SN54AS758	Rochester	54AS758	
SN54AS760	TI	SN54AS756	
SN54AS804B	TI	SN54AS805B	
SN54AS805B	TI	SN54AS804B	
SN54AS808B	TI	SN54AS821	
SN54AS821	TI	SN54AS808B	
SN54AS822	TI	SN54AS823	
SN54AS823	TI	SN54AS822	
SN54AS825	TI	SN54AS826	
SN54AS826	TI	SN54AS825	
SN54AS832B	TI	SN54AS86A	
♦ SN54AS846	Rochester	54AS846	
♦ SN54AS852	Rochester	54AS852	
SN54AS86A	TI	SN54AS832B	
SN54AS867	TI	SN54AS869	
SN54AS869	TI	SN54AS867	
SN54AS873	TI	SN54AS874	
SN54AS874	TI	SN54AS873	
SN54AS882A	National	DM54AS881B	
SN54AS885	TI	SN54AS890	
SN54AS890	TI	SN54AS885	
♦ SN54AS890	Rochester	54AS890	
♦ SN54AS897	Rochester	54AS897	
♦ SN54AS95	Rochester	54AS95	
SN54F00	Motorola	MC54F00	
	National	54F00	
	Philips	54F00	
SN54F02	Motorola	MC54F02	
	National	54F02	
SN54F04	Motorola	MC54F04	
	National	54F04	
	Philips	54F04	
	Rochester	54F04	
SN54F09	Motorola	MC54F10	
	National	54F10	
	TI	SN54F10	
SN54F10	Motorola	MC54F10	
	National	54F10	
	TI	SN54F09	
SN54F109	Motorola	MC54F109	
	National	54F109	
	Rochester	54F109	
SN54F11	Motorola	MC54F11	
	National	54F11	
SN54F112	Motorola	MC54F112	
	National	54F112	
SN54F113	National	54F113	
SN54F114	National	54F114	
SN54F138	Motorola	MC54F138	
	National	54F138	
SN54F151	Motorola	MC54F151	
	National	54F151	
		54F151A	
SN54F153	Motorola	MC54F153	
	National	54F153	
	Rochester	54F153	
SN54F157A	Motorola	MC54F157	
		MC54F157A	
	National	54F157	
		54F157A	
	Philips	54F157	
SN54F158A	Motorola	MC54F158	
		MC54F158A	
	National	54F158	
		54F158A	
	Philips	54F158	
SN54F160A	National	54F160A	
SN54F161A	National	54F161A	
	Rochester	54F161	
♦ SN54F161A	Rochester	54F161	
SN54F162A	National	54F162A	
SN54F163A	National	54F163A	
SN54F168	Motorola	MC54F168	
	National	54F168	
SN54F169	Motorola	MC54F169	
	National	54F169	
SN54F174	Motorola	MC54F174	
	National	54F174	
SN54F175	Motorola	MC54F175	
	National	54F175	
	Rochester	54F175	
SN54F20	Motorola	MC54F20	
	National	54F20	
	Philips	54F20	
	Rochester	54F20	
SN54F21	Motorola	MC54F21	
SN54F240	Motorola	MC54F240	
	National	54F240	
	Philips	54F240	
	Rochester	54F240	
SN54F241	Motorola	MC54F241	
	National	54F241	
	Philips	54F241	
	Rochester	54F241	
SN54F242	Motorola	MC54F242	
	National	54F242	
SN54F243	Motorola	MC54F243	
	National	54F243	
SN54F244	Motorola	MC54F244	
	National	54F244	
	Rochester	54F244	
SN54F245	Motorola	MC54F245	
	National	54F245	
SN54F251	Motorola	MC54F251	
	National	54F251A	
SN54F253	Motorola	MC54F253	
	National	54F253	
SN54F257	Motorola	MC54F257	
	National	54F257	
		54F257A	
	Philips	54F257	
	Rochester	54F257A	
SN54F258	Motorola	MC54F258	
	National	54F258	
		54F258A	
	Philips	54F258	
SN54F27	National	54F27	
SN54F273	Motorola	MC54F273	
	National	54F273	
SN54F280B	Motorola	MC54F280	
	National	54F280	
	Philips	54F280	
SN54F283	Motorola	MC54F283	
	National	54F283	
SN54F299	Motorola	MC54F299	
SN54F30	National	54F30	
SN54F32	Motorola	MC54F32	
	National	54F32	
SN54F350	Motorola	MC54F350	
	National	54F350	
SN54F352	Motorola	MC54F352	
	National	54F352	
	Rochester	54F352	
SN54F353	Motorola	MC54F353	
	National	54F353	
SN54F36	Motorola	MC54F365	
	National	54F365	
	Rochester	54F36	
SN54F37	National	54F37	
SN54F373	Motorola	MC54F373	
	National	54F373	
	Philips	54F373	
	Rochester	54F373	
SN54F374	Motorola	MC54F374	
	National	54F374	
	Philips	54F374	
	Rochester	54F374	
SN54F379	Motorola	MC54F379	
	National	54F379	
SN54F38	National	54F38	
SN54F381	Motorola	MC54F381	
	National	54F381	
SN54F382	Motorola	MC54F382	
	National	54F382	
SN54F40	National	54F40	
SN54F51	Motorola	MC54F51	
	National	54F51	
SN54F518	Rochester	54F18	
		54F518	
SN54F519	Rochester	54F19	
		54F519	
	TI	SN54F520	
SN54F520	TI	SN54F519	
SN54F521	Motorola	MC54F521	
	National	54F521	
	Philips	54F521	
SN54F533	Motorola	MC54F533	
	National	54F533	
SN54F534	Motorola	MC54F534	
	National	54F534	
SN54F543	Motorola	MC54F543	
	National	54F541	
		54F543	
SN54F544	Motorola	MC54F544	
	National	54F544	
SN54F563	National	54F563	
	Rochester	54F563	
SN54F573	National	54F573	
SN54F574	Motorola	MC54F574	
	National	54F574	
SN54F620	National	54F620	
SN54F623	National	54F623	
SN54F64	Motorola	MC54F64	
	National	54F632	
		54F64	
SN54F74	Motorola	MC54F74	
	National	54F710	
		54F74	
SN54HCT04	GoldStar	GD54HCT04	
	Harris	CD54HCT04	
	Motorola	MC54HCT04A	
	National	MM54HCT04	
	Rochester	54HCT04	
♦ SN54HCT04	Rochester	54HCT04	
SN54HCT137	GEC Plessey	54HCT137SOS	
	GoldStar	GD54HCT137	
	Harris	CD54HCT137	
	Rochester	54HCT137	
SN54HCT138	GEC Plessey	54HCT138SOS	
	GoldStar	GD54HCT138	
	Harris	CD54HCT138	
	Motorola	MC54HCT138A	
	National	MM54HCT138	
SN54HCT189	Cypress	CY7C189	
♦ SN54HCT189	GoldStar	GD54HCT190	
	Harris	CD54HCT190	
	National	54HCT190	
♦ SN54HCT219	GoldStar	GD54HCT221	
	Harris	CD54HCT221	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54HCT237	GEC Plessey	54HCT237SOS	
	Harris	CD54HCT237	
SN54HCT238	GEC Plessey	54HCT238SOS	
	Harris	CD54HCT238	
SN54HCT240	GEC Plessey	54HCT239SOS	
		54HCT240SOS	
	Harris	CD54HCT240	
	Motorola	MC54HCT240A	
	National	MM54HCT240	
	Rochester	54HCT240	
SN54HCT241	GEC Plessey	54HCT241SOS	
	GoldStar	GD54HCT241	
	Harris	CD54HCT241	
	Motorola	MC54HCT241A	
	National	MM54HCT241	
	Rochester	54HCT241	
SN54HCT244	GEC Plessey	54HCT244SOS	
	GoldStar	GD54HCT244	
	Harris	CD54HCT244	
	Motorola	MC54HCT244A	
	National	MM54HCT244	
SN54HCT245	GEC Plessey	54HCT245SOS	
	GoldStar	GD54HCT245	
	Harris	CD54HCT245	
	Motorola	MC54HCT245A	
	National	MM54HCT245	
SN54HCT373	GEC Plessey	54HCT373SOS	
	GoldStar	GD54HCT373	
	Harris	CD54HCT373	
	Motorola	MC54HCT373A	
	National	MM54HCT373	
SN54HCT374	GEC Plessey	54HCT374SOS	
	GoldStar	GD54HCT374	
	Harris	CD54HCT374	
	Motorola	MC54HCT374A	
	National	MM54HCT374	
♦ SN54HCT4027			
	Harris	CD54HCT4040	
♦ SN54HCT533	Rochester	54HCT533	
♦ SN54HCT534	GEC Plessey	54HCT534SOS	
	GoldStar	GD54HCT534	
	Harris	CD54HCT534	
	Motorola	MC54HCT534A	
	National	MM54HCT534	
SN54HCT540	GEC Plessey	54HCT540SOS	
	Harris	CD54HCT540	
	Motorola	MC54HCT540	
	National	MM54HCT540	
SN54HCT541	GEC Plessey	54HCT541SOS	
	Harris	CD54HCT541	
	Motorola	MC54HCT541	
	National	MM54HCT541	
♦ SN54HCT620	Rochester	54HCT620	
SN54HC00	GoldStar	GD54HC00	
	Harris	CD54HCT93	
		CD54HC00	
	Motorola	MC54HC00A	
	National	MM54HC00	
SN54HC02	GoldStar	GD54HC01	
		GD54HC02	
	Harris	CD54HC02	
	Motorola	MC54HC02A	
	National	MM54HC02	
SN54HC03	GoldStar	GD54HC03	
	Harris	CD54HC03	
	Motorola	MC54HC03A	
	National	MM54HC03	
SN54HC04	GoldStar	GD54HC04	
	Harris	CD54HC04	
	Motorola	MC54HC04A	
	National	MM54HC04	
	Rochester	54HC04	
SN54HC05	GoldStar	GD54HC05	
	National	MM54HC05	
SN54HC08	GoldStar	GD54HC08	
	Harris	CD54HC08	
	Motorola	MC54HC08A	
	National	MM54HC08	
SN54HC09	GoldStar	GD54HC09	
SN54HC10	GoldStar	GD54HC10	
	Harris	CD54HC10	
	Motorola	MC54HC10	
	National	MM54HC10	
SN54HC107	Harris	CD54HC107	
	Motorola	MC54HC107	
	National	MM54HC107	
	Rochester	54HC107	
♦ SN54HC107	Rochester	54HC107	
SN54HC109	Harris	CD54HC109	
	Motorola	MC54HC109	
	National	MM54HC109	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54HC11	GoldStar	GD54HC11	
	Harris	CD54HC11	
	Motorola	MC54HC11	
	National	MM54HC11	
	Rochester	54HC11	
♦ SN54HC11	Rochester	54HC11	
SN54HC112	Harris	CD54HC112	
	Motorola	MC54HC112	
	National	MM54HC112	
SN54HC113	Motorola	MC54HC113	
	National	MM54HC113	
	Rochester	54HC113	
♦ SN54HC113	Rochester	54HC113	
SN54HC114	Rochester	54HC114	
SN54HC125	GoldStar	GD54HC125	
	Harris	CD54HC125	
	Motorola	MC54HC125A	
	National	MM54HC125	
	Rochester	54HC125	
SN54HC126	GoldStar	GD54HC126	
	Harris	CD54HC126	
	Motorola	MC54HC126A	
	National	MM54HC126	
	Rochester	54HC126	
SN54HC132	GoldStar	GD54HC132	
	Harris	CD54HC132	
	Motorola	MC54HC132A	
	National	MM54HC132	
SN54HC133	Motorola	MC54HC133	
	National	MM54HC133	
	Rochester	54HC133	
♦ SN54HC133	Rochester	54HC133	
SN54HC137	GoldStar	GD54HC137	
	Harris	CD54HC137	
	Motorola	MC54HC137	
	National	MM54HC137	
SN54HC138	GoldStar	GD54HC138	
	Harris	CD54HC138	
	Motorola	MC54HC138A	
	National	MM54HC138	
SN54HC139	GoldStar	GD54HC139	
	Harris	CD54HC139	
	Motorola	MC54HC139A	
	National	MM54HC139	
	Rochester	54HC139	
SN54HC14	Harris	CD54HC14	
	Motorola	MC54HC14A	
	National	MM54HC14	
SN54HC148	GoldStar	GD54HC148	
	National	MM54HC148	
SN54HC151	GoldStar	GD54HC151	
	Harris	CD54HC151	
	Motorola	MC54HC151	
	National	MM54HC149	
		MM54HC151	
SN54HC152	Rochester	54HC152	
♦ SN54HC152	Rochester	54HC152	
SN54HC153	GoldStar	GD54HC153	
	Harris	CD54HC153	
	Motorola	MC54HC153	
	National	MM54HC153	
	Rochester	54HC153	
♦ SN54HC153	Rochester	54HC153	
SN54HC154	Rochester	54HC154	
SN54HC157	GoldStar	GD54HC157	
	Harris	CD54HC157	
	Motorola	MC54HC157A	
	National	MM54HC157	
SN54HC158	GoldStar	GD54HC158	
	Harris	CD54HC158	
	National	MM54HC158	
	Rochester	54HC158	
♦ SN54HC158	Rochester	54HC158	
SN54HC160	GoldStar	GD54HC160	
	Harris	CD54HC160	
	Motorola	MC54HC160	
	National	MM54HC160	
	Rochester	54HC160	
SN54HC161	GoldStar	GD54HC161	
	Harris	CD54HC161	
	Motorola	MC54HC161A	
	National	MM54HC161	
♦ SN54HC162	Rochester	54HC162	
SN54HC163	GoldStar	GD54HC163	
	Harris	CD54HC163	
	Motorola	MC54HC163A	
	National	MM54HC163	
SN54HC164	GoldStar	GD54HC164	
	Harris	CD54HC164	
	Motorola	MC54HC164	
	National	MM54HC164	
	Rochester	54HC164	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54HC165	GoldStar	GD54HC165	
	Harris	CD54HC165	
	Motorola	MC54HC165	
	National	MM54HC165	
	Rochester	54HC165	
SN54HC166	Harris	CD54HC166	
	National	MM54HC166	
SN54HC173	GoldStar	GD54HC173	
	Harris	CD54HC173	
	Motorola	MC54HC173	
	National	MM54HC173	
	Rochester	54HC173	
♦ SN54HC173	Rochester	54HC173	
SN54HC174	GoldStar	GD54HC174	
	Harris	CD54HC174	
	Motorola	MC54HC174A	
	National	MM54HC174	
	Rochester	54HC174	
SN54HC175	GoldStar	GD54HC175	
	Harris	CD54HC175	
	Motorola	MC54HC175	
	National	MM54HC175	
	Rochester	54HC175	
SN54HC180	Rochester	54HC180	
♦ SN54HC180	Rochester	54HC180	
SN54HC189	Cypress	CY7C189	
SN54HC190	GoldStar	GD54HC190	
	Harris	CD54HC190	
	National	MM54HC190	
SN54HC191	GoldStar	GD54HC191	
	Harris	CD54HC191	
	National	MM54HC191	
SN54HC192	GoldStar	GD54HC192	
	Harris	CD54HC192	
	National	MM54HC192	
	Rochester	54HC192	
SN54HC193	Harris	CD54HC193	
	National	MM54HC193	
	Rochester	54HC193	
SN54HC194	Harris	CD54HC194	
	Motorola	MC54HC194	
	National	MM54HC194	
	Rochester	54HC194	
♦ SN54HC194	Rochester	54HC194	
SN54HC195	Harris	CD54HC195	
	Motorola	MC54HC195	
	National	MM54HC195	
SN54HC20	GoldStar	GD54HC20	
	Harris	CD54HC20	
	Motorola	MC54HC20	
	National	MM54HC20	
SN54HC21	GoldStar	GD54HC21	
	Harris	CD54HC21	
SN54HC237	Harris	CD54HC237	
	Motorola	MC54HC237	
	National	MM54HC237	
	Rochester	54HC237	
♦ SN54HC237	Rochester	54HC237	
SN54HC238	Harris	CD54HC238	
SN54HC240	Harris	CD54HC240	
	Motorola	MC54HC240A	
	National	MM54HC240	
	Rochester	54HC240	
SN54HC241	GoldStar	GD54HC241	
	Harris	CD54HC241	
	Motorola	MC54HC241A	
	National	MM54HC241	
	Rochester	54HC241	
♦ SN54HC241	Rochester	54HC241	
SN54HC242	Harris	CD54HC242	
	Motorola	MC54HC242	
	National	MM54HC242	
	Rochester	54HC242	
♦ SN54HC242	Rochester	54HC242	
SN54HC243	Harris	CD54HC243	
	National	MM54HC243	
	Rochester	54HC243	
♦ SN54HC243	Rochester	54HC243	
SN54HC244	GoldStar	GD54HC244	
	Harris	CD54HC244	
	Motorola	MC54HC244A	
	National	MM54HC244	
SN54HC245	GoldStar	GD54HC245	
	Harris	CD54HC245	
	Motorola	MC54HC245A	
	National	MM54HC245	
		MM54HC245A	
SN54HC251	Harris	CD54HC251	
	Motorola	MC54HC251	
	National	MM54HC251	
	Rochester	54HC251	
♦ SN54HC251	Rochester	54HC251	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54HC253	Harris	CD54HC253	
	Motorola	MC54HC253	
	National	MM54HC253	
	Rochester	54HC253	
♦ SN54HC253	Rochester	54HC253	
SN54HC257	GoldStar	GD54HC257	
	Harris	CD54HC257	
	Motorola	MC54HC257	
	National	MM54HC257	
	Rochester	54HC257	
SN54HC258	Harris	CD54HC258	
	National	MM54HC258	
	Rochester	54HC258	
SN54HC259	Harris	CD54HC259	
	Motorola	MC54HC259	
	National	MM54HC259	
SN54HC266	Motorola	MC54HC266	
	National	MM54HC266	
	Rochester	54HC266	
♦ SN54HC266	Rochester	54HC266	
SN54HC27	GoldStar	GD54HC27	
	Harris	CD54HC27	
	Motorola	MC54HC27	
	National	MM54HC27	
SN54HC273	GoldStar	GD54HC273	
	Harris	CD54HC273	
	Motorola	MC54HC273A	
	National	MM54HC273	
SN54HC280	GoldStar	GD54HC280	
	Harris	CD54HC280	
	Motorola	MC54HC280	
	National	MM54HC280	
SN54HC30	GoldStar	GD54HC30	
	Harris	CD54HC30	
	Motorola	MC54HC30	
	National	MM54HC30	
SN54HC32	GoldStar	GD54HC32	
	Harris	CD54HC32	
	Motorola	MC54HC32A	
	National	MM54HC32	
♦ SN54HC353	Harris	CD54HC354	
	Motorola	MC54HC354	
	National	MM54HC354	
	Rochester	54HC354	
♦ SN54HC354	Harris	CD54HC354	
	Motorola	MC54HC354	
	National	MM54HC354	
	Rochester	54HC354	
♦ SN54HC356	Harris	CD54HC356	
	National	MM54HC356	
SN54HC365	GoldStar	GD54HC365	
	Harris	CD54HC365	
	Motorola	MC54HC365	
	National	MM54HC365	
SN54HC366	GoldStar	GD54HC366	
	Harris	CD54HC366	
	Motorola	MC54HC366	
	National	MM54HC366	
	Rochester	54HC366	
SN54HC367	GoldStar	GD54HC367	
	Harris	CD54HC367	
	Motorola	MC54HC367	
	National	MM54HC367	
SN54HC368	GoldStar	GD54HC368	
	Harris	CD54HC368	
	Motorola	MC54HC368	
	National	MM54HC368	
	Rochester	54HC368	
♦ SN54HC368	Rochester	54HC368	
SN54HC373	GoldStar	GD54HC373	
	Harris	CD54HC373	
	Motorola	MC54HC373A	
	National	MM54HC373	
SN54HC374	GoldStar	GD54HC374	
	Harris	CD54HC374	
	Motorola	MC54HC374A	
	National	MM54HC374	
SN54HC377	Harris	CD54HC377	
SN54HC378	Rochester	54HC378	
	TI	SN54HC379	
SN54HC379	Rochester	54HC379	
	TI	SN54HC378	
SN54HC386	Rochester	54HC386	
SN54HC390	Harris	CD54HC390	
	Motorola	MC54HC390	
	National	MM54HC390	
	Rochester	54HC390	
SN54HC393	GoldStar	GD54HC393	
	Harris	CD54HC393	
	Motorola	MC54HC393	
	National	MM54HC393	
	Rochester	54HC393	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SN54HC4002	Harris	CD54HC4002	
	Motorola	MC54HC4002	
	National	MM54HC4002	
	Rochester	54HC4002	
♦ SN54HC4002	Rochester	54HC4002	
SN54HC4016	Harris	CD54HC4015	
		CD54HC4016	
	Motorola	MC54HC4016	
	National	MM54HC4016	
	Rochester	54HC4016	
♦ SN54HC4016	Rochester	54HC4016	
SN54HC4020	Harris	CD54HC4020	
	Motorola	MC54HC4020	
	National	MM54HC4020	
	Rochester	54HC4020	
SN54HC4024	Harris	CD54HC4024	
	Motorola	MC54HC4024	
SN54HC4040	Harris	CD54HC4040	
	Motorola	MC54HC4040	
	National	MM54HC4040	
♦ SN54HC4050	Harris	CD54HC4050	
	Motorola	MC54HC4050	
	National	MM54HC4050	
♦ SN54HC4053	Harris	CD54HC4053	
	Motorola	MC54HC4053	
	National	MM54HC4053	
SN54HC4066	Harris	CD54HC4066	
	Motorola	MC54HC4066	
	National	MM54HC4066	
	Rochester	54HC4066	
♦ SN54HC4066	Rochester	54HC4066	
SN54HC4075	Harris	CD54HC4067	
		CD54HC4075	
	Motorola	MC54HC4075	
	National	MM54HC4075	
	Rochester	54HC4075	
♦ SN54HC4075	Rochester	54HC4075	
SN54HC4078A			
	Motorola	MC54HC4078	
	National	MM54HC4078	
SN54HC42	GoldStar	GD54HC42	
	Harris	CD54HC4094	
		CD54HC42	
	Motorola	MC54HC42	
	National	MM54HC42	
SN54HC51	GoldStar	GD54HC51	
	Motorola	MC54HC51	
	National	MM54HC51	
♦ SN54HC51	Rochester	54HC51	
SN54HC533	GoldStar	GD54HC533	
	Harris	CD54HC533	
	Motorola	MC54HC533A	
	National	MM54HC521	
		MM54HC533	
♦ SN54HC533	Rochester	54HC533	
SN54HC534	GoldStar	GD54HC534	
	Harris	CD54HC534	
	Motorola	MC54HC534A	
	National	MM54HC534	
♦ SN54HC534	Rochester	54HC534	
SN54HC540	Harris	CD54HC540	
	Motorola	MC54HC540	
	National	MM54HC540	
SN54HC541	Harris	CD54HC541	
	Motorola	MC54HC541	
	National	MM54HC541	
SN54HC563	Harris	CD54HC563	
	Motorola	MC54HC563	
	National	MM54HC563	
	Rochester	54HC563	
SN54HC564	Harris	CD54HC564	
	Motorola	MC54HC564	
	National	MM54HC564	
SN54HC573	Harris	CD54HC573	
	Motorola	MC54HC573A	
	National	MM54HC573	
SN54HC574	Harris	CD54HC574	
	Motorola	MC54HC574A	
	National	MM54HC574	
♦ SN54HC589	Harris	CD54HC583	
	Motorola	MC54HC589	
	National	MM54HC589	
SN54HC595	Motorola	MC54HC595A	
	National	MM54HC595	
♦ SN54HC597	Harris	CD54HC597	
	Motorola	MC54HC597	
	National	MM54HC597	
♦ SN54HC604	Rochester	54HC604	
SN54HC620	National	MM54HC620	
	Rochester	54HC620	
♦ SN54HC620	Rochester	54HC620	
			(Continued)
SN54HC623	National	MM54HC623	
SN54HC640	Harris	CD54HC640	
	Motorola	MC54HC640A	
	National	MM54HC640	
	Rochester	54HC640	
SN54HC643	Harris	CD54HC643	
	National	MM54HC643	
♦ SN54HC643	Rochester	54HC643	
♦ SN54HC670	Harris	CD54HC670	
♦ SN54HC677	Rochester	54HC677	
SN54HC688	Harris	CD54HC688	
	Motorola	MC54HC688	
	National	MM54HC688	
♦ SN54HC7022	Rochester	54HC7022	
SN54HC73	Rochester	54HC73	
SN54HC74	GoldStar	GD54HC74	
	Harris	CD54HC74	
	Motorola	MC54HC74A	
	National	MM54HC74	
	Rochester	54HC74	
SN54HC75	Harris	CD54HC75	
	Motorola	MC54HC75	
	National	MM54HC75	
	Rochester	54HC75	
SN54HC76	Rochester	54HC76	
♦ SN54HC77	Rochester	54HC77	
♦ SN54HC78	Rochester	54HC78	
♦ SN54HC804	Rochester	54HC804	
SN54HC85	Rochester	54HC85	
SN54HC85A	Harris	CD54HC85	
	Motorola	MC54HC85	
	National	MM54HC85	
SN54HC86	GoldStar	GD54HC86	
	Harris	CD54HC86	
	Motorola	MC54HC86	
	National	MM54HC86	
	Rochester	54HC86	
♦ SN54H00	**Lansdale**	**ML54H00**	**(3669)**
		SL54H00	
♦ SN54H00	Rochester	54H00	
♦ SN54H01	**Lansdale**	**ML54H01**	**(3669)**
		SL54H01	
♦ SN54H01	Rochester	54H01	
♦ SN54H04	**Lansdale**	**ML54H04**	**(3669)**
	Rochester	54H04	
♦ SN54H05	**Lansdale**	**ML54H05**	**(3669)**
	Rochester	54H05	
♦ SN54H08	**Lansdale**	**ML54H08**	**(3669)**
		SL54H08	
♦ SN54H10	**Lansdale**	**ML54H10**	**(3669)**
		SL54H10	
♦ SN54H10	Rochester	54H10	
SN54H101	**Lansdale**	**ML54H101**	**(3669)**
		SL54H101	
♦ SN54H101	Rochester	54H101	
SN54H102	**Lansdale**	**ML54H102**	**(3669)**
		SL54H102	
♦ SN54H102	Rochester	54H102	
SN54H103	**Lansdale**	**ML54H103**	**(3669)**
		SL54H103	
♦ SN54H103	Rochester	54H103	
SN54H106	Lansdale	SL54H106	
♦ SN54H106	Rochester	54H106	
SN54H108	**Lansdale**	**ML54H108**	**(3669)**
		SL54H108	
♦ SN54H108	Rochester	54H108	
SN54H11	**Lansdale**	**ML54H11**	**(3669)**
		SL54H11	
♦ SN54H11	Rochester	54H11	
♦ SN54H183	Rochester	54H183	
♦ SN54H20	**Lansdale**	**ML54H20**	**(3669)**
		SL54H20	
♦ SN54H20	Rochester	54H20	
SN54H21	**Lansdale**	**ML54H21**	**(3669)**
		SL54H21	
♦ SN54H21	Rochester	54H21	
♦ SN54H22	**Lansdale**	**ML54H22**	**(3669)**
		SL54H22	
♦ SN54H22	Rochester	54H22	
♦ SN54H30	**Lansdale**	**ML54H30**	**(3669)**
		SL54H30	
♦ SN54H30	Rochester	54H30	
♦ SN54H40	**Lansdale**	**ML54H40**	**(3669)**
		SL54H40	
♦ SN54H40	Rochester	54H40	
♦ SN54H50	**Lansdale**	**ML54H50**	**(3669)**
	Rochester	54H50	
♦ SN54H51	**Lansdale**	**ML54H51**	**(3669)**
	Rochester	54H51	
♦ SN54H52	**Lansdale**	**ML54H52**	**(3669)**
		SL54H52	
♦ SN54H52	Rochester	54H52	
			(Continued)
♦ SN54H53	**Lansdale**	**ML54H53**	**(3669)**
		SL54H53	
♦ SN54H53	Rochester	54H53	
♦ SN54H54	**Lansdale**	**ML54H54**	**(3669)**
		SL54H54	
♦ SN54H54	Rochester	RC3133	
		54H54	
♦ SN54H55	**Lansdale**	**ML54H55**	**(3669)**
		SL54H55	
♦ SN54H55	Rochester	RC134	
		54H55	
♦ SN54H60	**Lansdale**	**ML54H60**	**(3669)**
		ML54H61	**(3669)**
		SL54H60	
		SL54H61	
♦ SN54H60	Rochester	RC3130	
		54H60	
SN54H61	**Lansdale**	**ML54H61**	**(3669)**
		SL54H61	
♦ SN54H61	Rochester	RC3119	
		54H61	
		54H62	
♦ SN54H62	**Lansdale**	**ML54H62**	**(3669)**
		SL54H62	
♦ SN54H62	Rochester	RC3118	
♦ SN54H71	**Lansdale**	**ML54H71**	**(3669)**
		SL54H71	
♦ SN54H71	Rochester	RC3143	
		54H71	
♦ SN54H72	**Lansdale**	**ML54H72**	**(3669)**
		SL54H72	
♦ SN54H72	Rochester	RC3163	
		54H72	
SN54H73	**Lansdale**	**ML54H73**	**(3669)**
♦ SN54H73	Rochester	54H73	
♦ SN54H74	**Lansdale**	**ML54H74**	**(3669)**
		SL54H74	
♦ SN54H74	Rochester	54H74	
SN54H76	Lansdale	SL54H76	
♦ SN54H76	Rochester	54H76	
♦ SN54H78	Rochester	54H78	
SN54H87	**Lansdale**	**ML54H87**	**(3669)**
♦ SN54H87	Rochester	RC3100	
		54H87	
SN54LS00	GoldStar	GD54LS00	
	Lansdale	SL54LS00	
	Motorola	SN54LS00	
	National	DM54LS00	
		54LS00	
	Rochester	54LS00	
	SGS-Thomson		
		T54LS00	
		54LS00	
♦ SN54LS00	Rochester	9L00	
SN54LS01	Lansdale	SL54LS01	
	Motorola	SN54LS01	
SN54LS02	GoldStar	GD54LS02	
	Lansdale	SL54LS02	
	Motorola	SN54LS02	
	National	DM54LS02	
		54LS02	
	Rochester	54LS02	
	SGS-Thomson		
		T54LS02	
		54LS02	
SN54LS03	Motorola	SN54LS03	
	National	DM54LS03	
		54LS03	
	Rochester	54LS03	
	SGS-Thomson		
		54LS03	
SN54LS04	GoldStar	GD54LS04	
		54LS04	
	Lansdale	SL54LS04	
	Motorola	SN54LS04	
	National	DM54LS04	
		54LS04	
	SGS-Thomson		
		T54LS04	
		54LS04	
♦ SN54LS04	Rochester	9L04	
SN54LS05	GoldStar	GD54LS05	
	Lansdale	SL54LS05	
	Motorola	SN54LS05	
	National	DM54LS05	
		54LS05	
	Rochester	54LS05	
	SGS-Thomson		
		T54LS05A	
		54LS05	
SN54LS08	GoldStar	GD54LS08	
	Lansdale	SL54LS08	
	Motorola	SN54LS08	
			(Continued)
SN54LS08			(Cont'd)
	National	DM54LS08	
		54LS08	
SN54LS09	GoldStar	GD54LS09	
	Lansdale	SL54LS09	
	Motorola	SN54LS09	
	National	DM54LS09	
		54LS09	
	SGS-Thomson		
		T54LS09	
		54LS09	
SN54LS10	GoldStar	GD54LS10	
	Lansdale	SL54LS10	
	Motorola	SN54LS10	
	National	DM54LS10	
		54LS10	
	SGS-Thomson		
		T54LS10	
		54LS10	
SN54LS107A	GoldStar	GD54LS107A	
	Lansdale	SL54LS107	
	Motorola	SN54LS107A	
	National	DM54LS107A	
SN54LS109A	GoldStar	GD54LS109A	
	Lansdale	SL54LS109	
	Motorola	SN54LS109A	
	National	DM54LS109	
		54LS109	
SN54LS11	GoldStar	GD54LS11	
	Lansdale	SL54LS11	
	Motorola	SN54LS11	
	National	DM54LS11	
		54LS11	
	SGS-Thomson		
		T54LS11	
		54LS11	
SN54LS112	Rochester	54LS112	
SN54LS112A	GoldStar	GD54LS112	
	Lansdale	SL54LS112	
	Motorola	SN54LS112A	
	National	54LS112	
SN54LS113	Rochester	54LS113	
SN54LS114A	Motorola	SN54LS114A	
	National	54LS114	
	SGS-Thomson		
		T54LS114	
SN54LS12	Motorola	SN54LS12	
	National	DM54LS12	
SN54LS122	Motorola	SN54LS122	
SN54LS123	GoldStar	GD54LS123	
	Motorola	SN54LS123	
SN54LS125A	GoldStar	GD54LS125	
		GD54LS125A	
	Lansdale	SL54LS125	
		SL54LS125A	
	Motorola	SN54LS125A	
	National	DM54LS125A	
		54LS125A	
	SGS-Thomson		
		54LS125A	
SN54LS126A	Lansdale	SL54LS126A	
	Motorola	SN54LS126A	
	National	54LS126	
	SGS-Thomson		
		54LS126	
SN54LS13	Lansdale	SL54LS13	
	Motorola	SN54LS13	
	National	54LS13	
	SGS-Thomson		
		T54LS13	
SN54LS132	GoldStar	GD54LS132	
	Lansdale	SL54LS132	
	Motorola	SN54LS132	
	National	DM54LS132	
	SGS-Thomson		
		T54LS132	
		54LS132	
SN54LS136	Lansdale	SL54LS136	
	Motorola	SN54LS136	
	National	DM54LS136	
		54LS136	
	SGS-Thomson		
		T54LS136	
		54LS136	
SN54LS137	Motorola	SN54LS137	
SN54LS138	GoldStar	GD54LS138	
	Motorola	SN54LS138	
	National	DM54LS138	
		54LS138	
	Rochester	54LS138	
	SGS-Thomson		
		T54LS138	
		54LS138	

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN54LS139	Lansdale	SL54LS139	
	Rochester	93L21	
SN54LS139A	GoldStar	GD54LS139	
	Lansdale	54LS139	
	Motorola	SN54LS139	
	National	DM54LS139	
		54LS139	
	SGS-Thomson		
		T54LS139	
		54LS139	
SN54LS14	GoldStar	GD54LS14	
	Lansdale	SL54LS14	
	Motorola	SN54LS14	
	National	54LS14	
	SGS-Thomson		
		T54LS14	
		54LS14	
SN54LS145	GoldStar	GD54LS145	
	Motorola	SN54LS145	
SN54LS147	Motorola	SN54LS147	
SN54LS148	GoldStar	GD54LS148	
	Motorola	SN54LS148	
SN54LS15	GoldStar	GD54LS15	
	Motorola	SN54LS15	
	National	54LS15	
	SGS-Thomson		
		T54LS15	
		54LS15	
SN54LS151	GoldStar	GD54LS151	
	Lansdale	SL54LS151	
	Motorola	SN54LS151	
	National	DM54LS151	
		54LS151	
	SGS-Thomson		
		T54LS151	
		54LS151	
SN54LS153	GoldStar	GD54LS153	
	Lansdale	SL54LS153	
	Motorola	SN54LS153	
	National	DM54LS153	
		54LS152	
		54LS153	
SN54LS155A	GoldStar	GD54LS155	
	Lansdale	SL54LS155	
	Motorola	SN54LS155	
	National	DM54LS155	
		54LS155	
	SGS-Thomson		
		T54LS155	
		54LS155	
SN54LS156	Lansdale	SL54LS156	
	Motorola	SN54LS156	
	National	DM54LS156	
		54LS156	
	SGS-Thomson		
		T54LS156	
		54LS156	
SN54LS157	GoldStar	GD54LS157	
	Lansdale	SL54LS157	
	Motorola	SN54LS157	
	National	DM54LS157	
		54LS157	
	SGS-Thomson		
		T54LS157	
		54LS157	
SN54LS158	GoldStar	GD54LS158	
	Lansdale	SL54LS158	
	Motorola	SN54LS158	
	National	DM54LS158	
		54LS158	
	Rochester	54LS158	
	SGS-Thomson		
		T54LS158	
		54LS158	
SN54LS160A	Lansdale	SL54LS160A	
	Motorola	SN54LS160A	
	National	54LS160A	
SN54LS161A	GoldStar	GD54LS161A	
	Motorola	SN54LS161A	
	National	DM54LS161A	
		54LS161	
SN54LS162A	Lansdale	SL54LS162A	
	Motorola	SN54LS162A	
	National	54LS162A	
SN54LS163A	GoldStar	GD54LS163A	
	Lansdale	SL54LS163A	
	Motorola	SN54LS163A	
	National	DM54LS163A	
		54LS163A	
SN54LS164	GoldStar	GD54LS164	
	Lansdale	SL54LS164	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54LS164			(Cont'd)
	Motorola	SN54LS164	
	National	DM54LS164	
		54LS164	
	Rochester	54LS164	
SN54LS165A	GoldStar	GD54LS165	
	Motorola	SN54LS165	
	National	54LS165	
	Rochester	54LS165	
SN54LS166A	GoldStar	GD54LS166	
	Motorola	SN54LS166	
SN54LS169B	Lansdale	SL54LS169A	
	Motorola	SN54LS169	
	National	DM54LS169A	
		54LS169	
	SGS-Thomson		
		T54LS169	
SN54LS170	Lansdale	SL54LS170	
	Motorola	SN54LS170	
	National	54LS170	
	SGS-Thomson		
		T54LS170	
		54LS170	
♦ SN54LS171	Rochester	54LS171	
SN54LS173A	Lansdale	SL54LS173	
	Motorola	SN54LS173A	
	National	54LS173A	
SN54LS174	GoldStar	GD54LS174	
	Lansdale	SL54LS174	
	Motorola	SN54LS174	
	National	DM54LS174	
		54LS174	
	Rochester	54LS174	
	SGS-Thomson		
		T54LS174	
		54LS174	
SN54LS175	GoldStar	GD54LS175	
	Lansdale	SL54LS175	
	Motorola	SN54LS175	
	National	DM54LS175	
		54LS175	
	SGS-Thomson		
		T54LS175	
		54LS175	
SN54LS181	Lansdale	SL54LS181	
	Motorola	SN54LS181	
	National	54LS181	
SN54LS189A	Cypress	CY27LS03	
SN54LS190	Motorola	SN54LS190	
	National	DM54LS190	
SN54LS191	GoldStar	GD54LS191	
	Lansdale	SL54LS191	
	Motorola	SN54LS191	
	National	DM54LS191	
SN54LS192	Lansdale	SL54LS192	
	Motorola	SN54LS192	
	National	54LS192	
	SGS-Thomson		
		T54LS192	
		54LS192	
SN54LS193	GoldStar	GD54LS193	
	Motorola	SN54LS193	
	National	DM54LS193	
		54LS193	
	SGS-Thomson		
		T54LS193	
		54LS193	
SN54LS194A	GoldStar	GD54LS194A	
	Lansdale	SL54LS194A	
	Motorola	SN54LS194A	
	National	54LS194A	
	SGS-Thomson		
		T54LS194A	
SN54LS195A	GoldStar	GD54LS195A	
	Motorola	SN54LS195A	
	National	54LS195	
	SGS-Thomson		
		T54LS195A	
		54LS195A	
SN54LS196	Motorola	SN54LS196	
SN54LS197	Lansdale	SL54LS197	
	Motorola	SN54LS197	
SN54LS20	GoldStar	GD54LS20	
	Lansdale	SL54LS20	
	Motorola	SN54LS20	
	National	DM54LS20	
		54LS20	
	Rochester	54LS20	
	SGS-Thomson		
		T54LS20	
		54LS20	
SN54LS21	GoldStar	GD54LS21	
	Lansdale	SL54LS21	
	Motorola	SN54LS21	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54LS21			(Cont'd)
	National	DM54LS21	
		54LS21	
SN54LS219	Cypress	CY7C190	
♦ SN54LS219A	Motorola	SN54LS22	
	National	54LS22	
	SGS-Thomson		
		T54LS22	
		54LS22	
♦ SN54LS219A	TI	SN54LS22	
SN54LS22	Motorola	SN54LS22	
	National	54LS22	
	SGS-Thomson		
		T54LS22	
		54LS22	
SN54LS221	GoldStar	GD54LS221	
	Motorola	SN54LS221	
	National	DM54LS221	
SN54LS222A	TI	SN54LS224A	
SN54LS224A	TI	SN54LS222A	
SN54LS240	GoldStar	GD54LS240	
	Lansdale	SL54LS240	
	Motorola	SN54LS240	
	National	DM54LS240	
		54LS240	
	SGS-Thomson		
		T54LS240	
		54LS240	
SN54LS241	GoldStar	GD54LS241	
	Lansdale	SL54LS241	
	Motorola	SN54LS241	
	National	DM54LS241	
		54LS241	
SN54LS242	GoldStar	GD54LS242	
	Lansdale	SL54LS242	
	Motorola	SN54LS242	
	National	DM54LS242	
SN54LS243	GoldStar	GD54LS243	
	Lansdale	SL54LS243	
	Motorola	SN54LS243	
	National	DM54LS243	
SN54LS244	GoldStar	GD54LS244	
	Lansdale	SL54LS244	
	Motorola	SN54LS244	
	National	54LS244	
	Rochester	54LS244	
SN54LS245	GoldStar	GD54LS245	
	Lansdale	SL54LS245	
	Motorola	SN54LS245	
	National	DM54LS245	
		54LS245	
SN54LS247	Motorola	SN54LS247	
	National	54LS247	
SN54LS248	Motorola	SN54LS248	
	National	54LS248	
SN54LS249	Motorola	SN54LS249	
	National	54LS249	
SN54LS251	GoldStar	GD54LS251	
	Lansdale	SL54LS251	
	Motorola	SN54LS251	
	National	DM54LS251	
SN54LS253	Lansdale	SL54LS253	
	Motorola	SN54LS253	
	National	DM54LS253	
		54LS253	
	Rochester	54LS253	
SN54LS257B	GoldStar	GD54LS257A	
	Lansdale	SL54LS257A	
	Motorola	SN54LS257A	
		SN54LS257B	
	National	DM54LS257B	
		54LS257A	
SN54LS258B	GoldStar	GD54LS258B	
	Lansdale	SL54LS258A	
	Motorola	SN54LS258A	
		SN54LS258B	
	National	DM54LS258B	
		54LS258A	
	SGS-Thomson		
		T54LS258A	
		54LS258	
SN54LS259B	GoldStar	GD54LS259	
	Lansdale	SL54LS259	
	Motorola	SN54LS259	
	National	DM54LS259	
		54LS259	
	SGS-Thomson		
		T54LS259	
		54LS259	
SN54LS26	GoldStar	GD54LS26	
	Lansdale	SL54LS26	
	Motorola	SN54LS26	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54LS26			(Cont'd)
	National	DM54LS26	
		54LS26	
SN54LS261	Rochester	54LS261	
♦ SN54LS261	Rochester	54LS261	
SN54LS266	Lansdale	SL54LS266	
	Motorola	SN54LS266	
	National	54LS266	
	Rochester	54LS266	
	SGS-Thomson		
		T54LS266	
		54LS266	
SN54LS27	GoldStar	GD54LS27	
	Motorola	SN54LS27	
	National	DM54LS27	
		54LS27	
	Rochester	54LS27	
	SGS-Thomson		
		T54LS27	
		54LS27	
SN54LS273	GoldStar	GD54LS273	
	Lansdale	SL54LS273	
	Motorola	SN54LS273	
	National	54LS273	
	Philips	54LS273	
	SGS-Thomson		
		T54LS273	
		54LS273	
SN54LS275	Rochester	54LS275	
♦ SN54LS275	Rochester	54LS275	
SN54LS279	Rochester	54LS279	
SN54LS279A	Motorola	SN54LS279	
	National	DM54LS279	
		54LS279	
	SGS-Thomson		
		T54LS279	
		54LS279	
SN54LS28	Motorola	SN54LS28	
	National	54LS28	
	SGS-Thomson		
		T54LS28	
SN54LS280	GoldStar	GD54LS280	
	Motorola	SN54LS280	
	SGS-Thomson		
		T54LS280	
		54LS280	
SN54LS283	GoldStar	GD54LS283	
	Lansdale	SL54LS283	
	Motorola	SN54LS283	
	National	DM54LS283	
		54LS283	
	Rochester	54LS283	
	SGS-Thomson		
		54LS283	
SN54LS290	Motorola	SN54LS290	
	SGS-Thomson		
		54LS290	
SN54LS293	Motorola	SN54LS293	
	SGS-Thomson		
		T54LS293	
		54LS293	
SN54LS295B	Lansdale	SL54LS295B	
SN54LS298	GoldStar	GD54LS298	
	Lansdale	SL54LS298	
	Motorola	SN54LS298	
	National	54LS298	
	SGS-Thomson		
		54LS298	
SN54LS299	GoldStar	GD54LS299	
	Motorola	SN54LS299	
	National	54LS299	
SN54LS30	GoldStar	GD54LS30	
	Lansdale	SL54LS30	
	Motorola	SN54LS30	
	National	DM54LS30	
		54LS30	
	SGS-Thomson		
		T54LS30	
		54LS30	
SN54LS32	GoldStar	GD54LS32	
	Lansdale	SL54LS32	
	Motorola	SN54LS32	
	National	DM54LS32	
		54LS32	
	SGS-Thomson		
		T54LS32	
		54LS32	
SN54LS320	TI	SN54LS321	
SN54LS321	TI	SN54LS320	
SN54LS322A	GoldStar	GD54LS322	
	Motorola	SN54LS322A	
	National	54LS322	
SN54LS323	Motorola	SN54LS323	
	National	54LS323	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54LS33	Lansdale	SL54LS33	
	Motorola	SN54LS33	
	National	54LS33	
	SGS-Thomson	T54LS33	
♦ SN54LS347	National	54LS347	
SN54LS348	Motorola	SN54LS348	
SN54LS352	Lansdale	SL54LS352	
	Motorola	SN54LS352	
	National	DM54LS352	
		54LS352	
	SGS-Thomson	T54LS352	
SN54LS353	Lansdale	SL54LS353	
	Motorola	SN54LS353	
	National	54LS353	
	SGS-Thomson	T54LS353	
♦ SN54LS355	Rochester	54LS355	
SN54LS365A	Lansdale	SL54LS365A	
	Motorola	SN54LS365A	
	National	DM54LS365A	
		54LS365	
	SGS-Thomson	T54LS365A	
		54LS365	
SN54LS366A	GoldStar	GD54LS366A	
	Lansdale	SL54LS366A	
	Motorola	SN54LS366A	
	National	DM54LS366A	
		54LS366	
	SGS-Thomson	T54LS366A	
		54LS366	
SN54LS367A	GoldStar	GD54LS367A	
	Lansdale	SL54LS367A	
	Motorola	SN54LS367A	
	National	DM54LS367A	
		54LS367	
	SGS-Thomson	T54LS367A	
		54LS367	
SN54LS368	Rochester	54LS368	
SN54LS368A	GoldStar	GD54LS368A	
	Motorola	SN54LS368A	
	National	DM54LS368A	
		54LS368	
	SGS-Thomson	T54LS368A	
		54LS368	
SN54LS37	Lansdale	SL54LS37	
	Motorola	SN54LS37	
	National	DM54LS37	
		54LS37	
	SGS-Thomson	T54LS37	
		54LS37	
SN54LS373	GoldStar	GD54LS373	
	Lansdale	SL54LS373	
	Motorola	SN54LS373	
	National	DM54LS373	
	Rochester	54LS373	
	SGS-Thomson	T54LS373	
		54LS373	
SN54LS374	GoldStar	GD54LS374	
	Lansdale	SL54LS374	
	Motorola	SN54LS374	
	National	DM54LS374	
		54LS374	
	SGS-Thomson	T54LS374	
		54LS374	
SN54LS375	Lansdale	SL54LS375	
	Motorola	SN54LS375	
	National	54LS375	
SN54LS377	GoldStar	GD54LS377	
	Lansdale	SL54LS377	
	Motorola	SN54LS377	
	National	54LS377	
	SGS-Thomson	T54LS377	
		54LS377	
SN54LS378	Lansdale	SL54LS378	
	Motorola	SN54LS378	
	National	54LS378	
	SGS-Thomson	T54LS378	
SN54LS379	Motorola	SN54LS379	
	National	54LS379	
	SGS-Thomson	T54LS379	
SN54LS38	GoldStar	GD54LS38	
	Lansdale	SL54LS38	
	Motorola	SN54LS38	
	National	DM54LS38	
		54LS38	
	Rochester	54LS38	
	SGS-Thomson	T54LS38	
		54LS38	
SN54LS381A	TI	SN54LS382A	
SN54LS382A	TI	SN54LS381A	
♦ SN54LS384	Rochester	54LS384	
SN54LS385	Motorola	SN54LS386	
	TI	SN54LS386A	
SN54LS386A	Motorola	SN54LS386	
	TI	SN54LS385	
SN54LS390	GoldStar	GD54LS390	
	Lansdale	SL54LS390	
	Motorola	SN54LS390	
	SGS-Thomson	T54LS390	
		54LS390	
SN54LS393	GoldStar	GD54LS393	
	Lansdale	SL54LS393	
	Motorola	SN54LS393	
	SGS-Thomson	T54LS393	
SN54LS395A	GoldStar	GD54LS395	
	Lansdale	**SL54LS395A**	**(3674)**
	SGS-Thomson	T54LS395	
SN54LS396	Motorola	SN54LS398	
SN54LS399	Motorola	SN54LS399	
SN54LS40	Lansdale	SL54LS40	
	Motorola	SN54LS40	
	National	54LS40	
	SGS-Thomson	T54LS40	
		54LS40	
SN54LS42	GoldStar	GD54LS42	
	Lansdale	SL54LS42	
	Motorola	SN54LS42	
		SN54LS42A	
	National	DM54LS42	
		54LS42	
	Rochester	54LS42	
	SGS-Thomson	T54LS42	
		54LS42	
♦ SN54LS422	Rochester	54LS422	
♦ SN54LS440	Rochester	54LS440	
♦ SN54LS441	Rochester	54LS441	
♦ SN54LS443	TI	SN54LS442	
♦ SN54LS444	Rochester	54LS444	
♦ SN54LS446	National	54LS447	
♦ SN54LS468	Rochester	54LS468	
SN54LS47	Motorola	SN54LS47	
	National	54LS47	
SN54LS48	Motorola	SN54LS48	
	National	DM54LS471	
		54LS48	
SN54LS49	National	54LS49	
SN54LS490	**Lansdale**	**SL54LS490**	**(3674)**
	Motorola	SN54LS490	
	National	54LS490	
	SGS-Thomson	T54LS490	
SN54LS51	GoldStar	GD54LS51	
	Lansdale	SL54LS51	
	Motorola	SN54LS51	
	National	54LS503	
		54LS51	
	Rochester	54LS51	
SN54LS54	Lansdale	SL54LS54	
	Motorola	SN54LS54	
	National	54LS54	
	SGS-Thomson	T54LS54	
		54LS54	
♦ SN54LS54	Rochester	9L54	
SN54LS540	**Lansdale**	**SL54LS540**	**(3674)**
	Motorola	SN54LS540	
SN54LS541	**Lansdale**	**SL54LS541**	**(3674)**
	Motorola	SN54LS541	
SN54LS590	GoldStar	GD54LS590	
	Motorola	SN54LS569A	
♦ SN54LS591	Rochester	54LS591	
SN54LS592	TI	SN54LS593	
SN54LS593	TI	SN54LS592	
SN54LS595	TI	SN54LS597	
SN54LS597	TI	SN54LS595	
♦ SN54LS600	Rochester	54LS600	
♦ SN54LS601	Rochester	54LS601	
♦ SN54LS607	Rochester	54LS607	
SN54LS610	Rochester	54LS610	
♦ SN54LS610	Rochester	54LS610	
♦ SN54LS613	**Lansdale**	**SL54LS620**	**(3674)**
♦ SN54LS620	**Lansdale**	**SL54LS620**	**(3674)**
♦ SN54LS621	**Lansdale**	**SL54LS621**	**(3674)**
♦ SN54LS622	**Lansdale**	**SL54LS622**	**(3674)**
♦ SN54LS623	**Lansdale**	**SL54LS623**	**(3674)**
	Motorola	SN54LS623	
♦ SN54LS625	TI	SN54LS624	
SN54LS626	Rochester	54LS627	
♦ SN54LS627	Rochester	54LS627	
	TI	SN54LS626	
SN54LS628	TI	SN54LS629	
SN54LS629	TI	SN54LS628	
♦ SN54LS63	TI	SN54LS630	
♦ SN54LS63A	Rochester	54LS63A	
♦ SN54LS637	Rochester	54LS637	
♦ SN54LS639	GoldStar	GD54LS640	
		GD54LS640-1	
♦ SN54LS639	**Lansdale**	**SL54LS640**	**(3674)**
	Motorola	SN54LS640	
	TI	SN54LS640	
SN54LS640	GoldStar	GD54LS640	
		GD54LS640-1	
	Lansdale	**SL54LS640**	**(3674)**
	Motorola	SN54LS640	
SN54LS641	**Lansdale**	**SL54LS641-1**	**(3674)**
	Motorola	SN54LS641	
SN54LS642	**Lansdale**	**SL54LS642**	**(3674)**
	Motorola	SN54LS642	
♦ SN54LS643	Rochester	54LS644	
	TI	SN54LS644	
SN54LS644	Rochester	54LS644	
♦ SN54LS644	Rochester	54LS644	
SN54LS645	**Lansdale**	**SL54LS645**	**(3674)**
		SL54LS645-1	**(3674)**
	Motorola	SN54LS645	
♦ SN54LS646	GoldStar	GD54LS646	
♦ SN54LS652	Rochester	54LS653	
♦ SN54LS653	Rochester	54LS653	
♦ SN54LS654	TI	SN54LS668	
SN54LS669	Motorola	SN54LS669	
SN54LS670	GoldStar	GD54LS670	
	Lansdale	**SL54LS670**	**(3674)**
	Motorola	SN54LS670	
	National	DM54LS670	
		54LS670	
	Rochester	54LS670	
	SGS-Thomson	54LS670	
♦ SN54LS671	Rochester	54LS671	
SN54LS673	TI	SN54LS674	
SN54LS674	TI	SN54LS673	
♦ SN54LS68	Rochester	54LS68	
SN54LS681	Motorola	SN54LS682	
	TI	SN54LS682	
SN54LS682	Motorola	SN54LS682	
	TI	SN54LS681	
SN54LS684	Motorola	SN54LS684	
♦ SN54LS685	Rochester	54LS685	
♦ SN54LS686	TI	SN54LS685	
SN54LS688	GoldStar	GD54LS688	
	Motorola	SN54LS688	
♦ SN54LS689	Rochester	54LS690	
♦ SN54LS69	Rochester	54LS69	
♦ SN54LS690	Rochester	54LS690	
♦ SN54LS692	TI	SN54LS691	
SN54LS693	Rochester	54LS696	
	TI	SN54LS696	
SN54LS696	Rochester	54LS696	
	TI	SN54LS693	
♦ SN54LS696	Rochester	54LS696	
SN54LS697	TI	SN54LS699	
SN54LS699	TI	SN54LS697	
SN54LS73A	GoldStar	GD54LS73A	
	Lansdale	SL54LS73	
	Motorola	SN54LS73A	
	National	DM54LS73A	
SN54LS74A	GoldStar	GD54LS74A	
	Lansdale	SL54LS74A	
	Motorola	SN54LS74A	
	National	DM54LS74	
		54LS74	
	SGS-Thomson	T54LS74A	
		54LS74	
SN54LS75	Lansdale	SL54LS75	
	Motorola	SN54LS748	
		SN54LS75	
	National	DM54LS75	
SN54LS76A	Lansdale	SL54LS76	
	Motorola	SN54LS76A	
♦ SN54LS78	Rochester	54LS78	
SN54LS78A	Motorola	SN54LS77	
SN54LS83A	Lansdale	SL54LS83A	
	Motorola	SN54LS83A	
	National	DM54LS83A	
		54LS83A	
	SGS-Thomson	54LS83A	
SN54LS85	GoldStar	GD54LS85	
	Lansdale	SL54LS85	
	Motorola	SN54LS848	
		SN54LS85	
	National	DM54LS85	
		54LS85	
	Rochester	54LS85	
♦ SN54LS86	Rochester	9L86	
SN54LS86A	GoldStar	GD54LS86	
	Lansdale	SL54LS86	
	Motorola	SN54LS86	
	National	DM54LS86	
SN54LS90	GoldStar	GD54LS90	
	Lansdale	SL54LS90	
	Motorola	SN54LS90	
SN54LS92	GoldStar	GD54LS92	
	Lansdale	SL54LS92	
	Motorola	SN54LS92	
SN54LS93	GoldStar	GD54LS93	
	Lansdale	SL54LS93	
	Motorola	SN54LS93	
	Rochester	54LS93	
	SGS-Thomson	T54LS93	
		54LS93	
SN54LS95B	GoldStar	GD54LS95B	
	Lansdale	SL54LS95B	
	Motorola	SN54LS95B	
	National	54LS95B	
SN54LS96	Lansdale	SL54LS96	
♦ SN54L00	Rochester	54L00	
♦ SN54L01	Rochester	54L01	
♦ SN54L02	Rochester	54L02	
♦ SN54L03	Rochester	54L03	
♦ SN54L04	Rochester	54L04	
♦ SN54L10	Rochester	54L10	
♦ SN54L121	Rochester	54L121	
♦ SN54L122	Rochester	54L122	
♦ SN54L124	Rochester	54L123	
♦ SN54L153	Rochester	54L153	
♦ SN54L154	Rochester	54L154	
♦ SN54L157	Rochester	54L157	
♦ SN54L164	Rochester	54L164	
♦ SN54L165A	Rochester	54L165A	
♦ SN54L192	Rochester	54L192	
♦ SN54L20	Rochester	54L20	
♦ SN54L30	Rochester	54L30	
♦ SN54L42	Rochester	54L42	
♦ SN54L47	Lansdale	TL54L47	
♦ SN54L51	Rochester	54L51	
♦ SN54L54	Rochester	54L54	
♦ SN54L55	Rochester	54L55	
♦ SN54L71	Rochester	54L71	
♦ SN54L72	Rochester	54L72	
♦ SN54L73	Rochester	54L73	
♦ SN54L74	Rochester	54L74	
♦ SN54L75	Rochester	54L75	
♦ SN54L78	Rochester	54L78	
♦ SN54L85	Rochester	54L85	
♦ SN54L86	Rochester	54L86	
♦ SN54L91	Rochester	54L91	
♦ SN54L98	Rochester	54L98	
SN54S00	GoldStar	GD54S00	
	Lansdale	**SL54S00**	**(3674)**
	National	DM54S00	
	Rochester	54S00	
SN54S02	GoldStar	GD54S02	
	Lansdale	**SL54S02**	**(3674)**
	National	DM54S02	
	Rochester	54S02	
SN54S03	**Lansdale**	**SL54S03**	**(3674)**
	National	DM54S03	
SN54S04	GoldStar	GD54S04	
	Lansdale	**SL54S04**	**(3674)**
	National	DM54S04	
	Rochester	54S04	
SN54S05	GoldStar	GD54S05	
	Lansdale	**SL54S05**	**(3674)**
SN54S08	GoldStar	GD54S08	
	Lansdale	**SL54S08**	**(3674)**
	National	DM54S08	
	Rochester	54S08	
SN54S09	Rochester	54S09	

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♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54S10	GoldStar	GD54S10	
	Lansdale	**SL54S10**	**(3674)**
	National	DM54S10	
	Rochester	54S10	
SN54S11	**Lansdale**	**SL54S11**	**(3674)**
	National	DM54S11	
	Rochester	54S11	
SN54S112	GoldStar	GD54S112	
	Lansdale	**SL54S112**	**(3674)**
	National	DM54S112	
	Rochester	54S112	
SN54S113	Lansdale	SL54S113	
	National	DM54S113	
	Rochester	54S113	
SN54S114	Rochester	54S114	
SN54S133	GoldStar	GD54S133	
	Lansdale	**SL54S133**	**(3674)**
	National	DM54S133	
	Rochester	54S133	
SN54S134	Lansdale	SL54S134	
	Rochester	54S134	
SN54S135	Lansdale	SL54S135	
	Rochester	54S135	
♦ SN54S135	Rochester	54S135	
SN54S138	GoldStar	GD54S138	
	Lansdale	**SL54S138**	**(3674)**
	National	DM54S138	
	Rochester	54S138	
♦ SN54S138	Rochester	54S138	
SN54S139	GoldStar	GD54S139	
	Lansdale	**SL54S139**	**(3674)**
	National	DM54S139	
	Rochester	54S139	
SN54S140	**Lansdale**	**SL54S140**	**(3674)**
	National	DM54S140	
	Rochester	54S140	
♦ SN54S140	Rochester	54S140	
SN54S15	Rochester	54S15	
SN54S151	**Lansdale**	**SL54S151**	**(3674)**
	National	DM54S151	
	Rochester	54S151	
SN54S153	GoldStar	GD54S153	
	Lansdale	**SL54S153**	**(3674)**
	National	DM54S153	
	Rochester	54S153	
SN54S157	GoldStar	GD54S157	
	Lansdale	**SL54S157**	**(3674)**
	National	DM54S157	
	Rochester	54S157	
SN54S158	GoldStar	GD54S158	
	Lansdale	**SL54S158**	**(3674)**
	National	DM54S158	
	Rochester	54S158	
SN54S162	GoldStar	GD54S163A	
	TI	SN54S163	
SN54S163	GoldStar	GD54S163A	
	Rochester	54S163	
	TI	SN54S162	
SN54S169	GoldStar	GD54S169A	
SN54S174	GoldStar	GD54S174	
	Lansdale	**SL54S174**	**(3674)**
	National	DM54S174	
	Rochester	54S174	
SN54S175	GoldStar	GD54S175	
	Lansdale	**SL54S175**	**(3674)**
	National	DM54S175	
	Rochester	54S175	
SN54S181	**Lansdale**	**SL54S181**	**(3674)**
	Rochester	54S181	
♦ SN54S181	Rochester	54S181	
SN54S182	Lansdale	SL54S182	
	Rochester	54S182	
♦ SN54S182	Rochester	54S182	
SN54S189	Cypress	CY54S189	
SN54S189A	Cypress	CY74S189	
♦ SN54S189A	**Lansdale**	**SL54S189**	**(3674)**
	National	DM54S189	
		DM54S189A	
♦ SN54S189A	Rochester	54S189	
SN54S194	**Lansdale**	**SL54S194**	**(3674)**
	National	DM54S194	
	Rochester	54S194	
♦ SN54S194	Rochester	54S194	
SN54S195	**Lansdale**	**SL54S195**	**(3674)**
	National	DM54S195	
	Rochester	54S195	
♦ SN54S195	Rochester	54S195	
SN54S196	TI	SN54S197	
SN54S197	TI	SN54S196	
SN54S20	GoldStar	GD54S20	
	Lansdale	**SL54S20**	**(3674)**

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN54S20			(Cont'd)
	National	DM54S20	
	Rochester	54S20	
SN54S22	Rochester	54S22	
♦ SN54S226	**Lansdale**	**SL54S225**	**(3674)**
	Rochester	54S226	
SN54S240	GoldStar	GD54S240	
	Lansdale	**SL54S240**	**(3674)**
	National	DM54S240	
	Rochester	54S240	
SN54S241	GoldStar	GD54S241	
	Lansdale	**SL54S241**	**(3674)**
	National	DM54S241	
	Rochester	54S241	
SN54S244	GoldStar	GD54S244	
	Lansdale	**SL54S244**	**(3674)**
	Rochester	54S244	
SN54S251	GoldStar	GD54S251	
	Lansdale	**SL54S251**	**(3674)**
	National	DM54S251	
	Rochester	54S251	
♦ SN54S251	Rochester	54S251	
SN54S257	GoldStar	GD54S257	
	Lansdale	**SL54S257**	**(3674)**
	National	DM54S257	
	Rochester	54S257	
♦ SN54S257	Rochester	54S257	
SN54S258	**Lansdale**	**SL54S258**	**(3674)**
	National	DM54S258	
	Rochester	54S258	
SN54S260	**Lansdale**	**SL54S260**	**(3674)**
	Rochester	54S260	
SN54S280	GoldStar	GD54S280	
	Lansdale	**SL54S280**	**(3674)**
	National	DM54S280	
♦ SN54S281	Rochester	54S281	
SN54S283	National	DM54S287	
	Rochester	54S283	
SN54S30	GoldStar	GD54S30	
	National	DM54S30	
	Rochester	54S30	
♦ SN54S301	**Lansdale**	**SL54S301**	**(3674)**
SN54S32	GoldStar	GD54S32	
	Lansdale	**SL54S32**	**(3674)**
	National	DM54S32	
SN54S350	Lansdale	SL54S350	
♦ SN54S350	Philips	54S350	
SN54S37	**Lansdale**	**SL54S37**	**(3674)**
SN54S373	**Lansdale**	**SL54S373**	**(3674)**
	National	DM54S373	
SN54S374	GoldStar	GD54S374	
	Lansdale	**SL54S374**	**(3674)**
	Rochester	54S374	
♦ SN54S374	Rochester	54S374	
SN54S38	**Lansdale**	**SL54S38**	**(3674)**
SN54S381	National	DM54S387	
SN54S40	**Lansdale**	**SL54S40**	**(3674)**
	National	DM54S40	
	Rochester	54S40	
♦ SN54S412	National	DM54S472	
		DM54S472A	
		DM54S472B	
♦ SN54S482	GoldStar	GD54S51	
	Lansdale	**SL54S51**	**(3674)**
	Rochester	54S51	
	TI	SN54S51	
SN54S51	GoldStar	GD54S51	
	Lansdale	**SL54S51**	**(3674)**
	Rochester	54S51	
SN54S64	GoldStar	GD54S64	
	Lansdale	**SL54S64**	**(3674)**
	National	DM54S64	
♦ SN54S64	Rochester	54S64	
SN54S65	Rochester	54S65	
SN54S74	GoldStar	GD54S74	
	Lansdale	**SL54S74**	**(3674)**
	Rochester	54S74	
SN54S85	GoldStar	GD54S85	
	Lansdale	**SL54S85**	**(3674)**
SN54S86	GoldStar	GD54S86	
	Lansdale	**SL54S86**	**(3674)**
♦ SN54S86	Rochester	54S86	
SN5400	Lansdale	SL5400	
♦ SN5400	**Lansdale**	**ML5400**	**(3668)**
	Rochester	5400	
		5401	
♦ SN5401	**Lansdale**	**ML5401**	**(3668)**
		SL5401	
♦ SN5402	**Lansdale**	**ML5402**	**(3668)**
		SL5402	
♦ SN5402	Rochester	5402	
SN5403	Lansdale	SL5403	

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN5403	**Lansdale**	**ML5403**	**(3668)**
	Rochester	5403	
SN5404	Lansdale	SL5404	
♦ SN5404	**Lansdale**	**ML5404**	**(3668)**
	Rochester	5404	
SN5405	Lansdale	SL5405	
♦ SN5405	**Lansdale**	**ML5405**	**(3668)**
	Rochester	5405	
SN5406	Lansdale	SL5406	
♦ SN5406	**Lansdale**	**ML5406**	**(3668)**
	Rochester	5406	
		7006	
SN5407	Lansdale	SL5407	
♦ SN5407	**Lansdale**	**ML5407**	**(3668)**
	Rochester	5407	
SN5408	Lansdale	SL5408	
♦ SN5408	**Lansdale**	**ML5408**	**(3668)**
	Rochester	5408	
♦ SN5409	**Lansdale**	**ML5409**	**(3668)**
		SL5409	
♦ SN5409	Rochester	5409	
SN5410	Lansdale	SL5410	
♦ SN5410	**Lansdale**	**ML5410**	**(3668)**
	Rochester	5410	
SN54107	Lansdale	SL54107	
♦ SN54107	**Lansdale**	**ML54107**	**(3668)**
	Rochester	54107	
SN54109	Lansdale	SL54109	
♦ SN54109	Rochester	7124	
SN5411	Lansdale	SL5411	
♦ SN5411	Rochester	5411	
♦ SN54111	Rochester	54111	
SN54121	Lansdale	SL54121	
♦ SN54121	**Lansdale**	**ML54121**	**(3668)**
	Rochester	54121	
SN54123	Lansdale	SL54123	
♦ SN54123	**Lansdale**	**ML54123**	**(3668)**
	Rochester	54123	
SN54126	Lansdale	SL54126	
♦ SN54126	Rochester	54126	
SN5413	Lansdale	SL5413	
♦ SN5413	**Lansdale**	**ML5413**	**(3668)**
	Rochester	5413	
SN54132	Lansdale	SL54132	
♦ SN54132	**Lansdale**	**ML54132**	**(3668)**
	Rochester	54132	
		7132	
SN5414	Lansdale	SL5414	
♦ SN5414	**Lansdale**	**ML5414**	**(3668)**
	Rochester	5414	
SN54141	Lansdale	ML54141	
♦ SN54141	Rochester	54141	
♦ SN54144	Rochester	54144	
♦ SN54145	Lansdale	ML54145	
		SL54145	
♦ SN54145	Rochester	54145	
SN54147	Rochester	54147	
SN54150	Lansdale	SL54150	
♦ SN54150	**Lansdale**	**ML54150**	**(3668)**
	Rochester	54150	
		7218	
SN54151	Lansdale	SL54151	
♦ SN54151	**Lansdale**	**ML54151**	**(3668)**
	Rochester	54151	
♦ SN54152	**Lansdale**	**ML54152**	**(3668)**
		SL54152	
♦ SN54152	Rochester	54152	
SN54153	Lansdale	SL54153	
♦ SN54153	**Lansdale**	**ML54153**	**(3668)**
SN54154	Lansdale	SL54154	
♦ SN54154	**Lansdale**	**ML54154**	**(3668)**
SN54155	Lansdale	SL54155	
♦ SN54155	**Lansdale**	**ML54155**	**(3668)**
	Rochester	54155	
SN54156	Lansdale	SL54156	
♦ SN54156	Lansdale	ML54156	
	Rochester	54156	
SN54157	Lansdale	SL54157	
♦ SN54157	Rochester	54157	
SN5416	Lansdale	SL5416	
♦ SN5416	**Lansdale**	**ML5416**	**(3668)**
	Rochester	5416	
SN54160	Lansdale	SL54160	
♦ SN54160	**Lansdale**	**ML54160**	**(3668)**
	Rochester	54160	
SN54161	Lansdale	SL54161	
♦ SN54161	**Lansdale**	**ML54161**	**(3668)**
	Rochester	7661	
♦ SN54162	**Lansdale**	**ML54162**	**(3668)**
	Rochester	54162	
SN54163	Lansdale	SL54163	
♦ SN54163	**Lansdale**	**ML54163**	**(3668)**

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN54164	Lansdale	ML54164	
	Rochester	54164	
SN54165	Lansdale	SL54165	
♦ SN54165	**Lansdale**	**ML54165**	**(3668)**
	Rochester	54165	
SN54166	Lansdale	SL54166	
	Rochester	7579	
♦ SN54166	Lansdale	ML54166	
	Rochester	54166	
		7569	
♦ SN54167	Rochester	54167	
SN5417	Lansdale	SL5417	
♦ SN5417	**Lansdale**	**ML5417**	**(3668)**
	Rochester	5417	
SN54173	Lansdale	SL54173	
♦ SN54173	Rochester	54173	
SN54174	Lansdale	SL54174	
♦ SN54174	**Lansdale**	**ML54174**	**(3668)**
	Rochester	54174	
		7557	
SN54175	Lansdale	SL54175	
♦ SN54175	**Lansdale**	**ML54175**	**(3668)**
	Rochester	54175	
		7558	
♦ SN54176	**Lansdale**	**ML54176**	**(3668)**
		ML8280	
		SL8280	
♦ SN54176	Rochester	54176	
♦ SN54177	**Lansdale**	**ML54177**	**(3668)**
		ML8281	
		SL8281	
♦ SN54177	Rochester	54177	
♦ SN54178	Lansdale	ML54178	
		ML8270	
		SL8270	
♦ SN54178	Rochester	54178	
♦ SN54179	Lansdale	ML54179	
		ML8271	
		SL8271	
♦ SN54179	Rochester	54179	
SN54180	Lansdale	SL54180	
♦ SN54180	**Lansdale**	**ML54180**	**(3668)**
	Rochester	54180	
SN54181	Lansdale	SL54181	
♦ SN54181	**Lansdale**	**ML54181**	**(3668)**
	Rochester	54181	
		9341	
♦ SN54182	**Lansdale**	**ML54182**	**(3668)**
		SL54182	
♦ SN54182	Rochester	54182	
		9342	
SN54190	**Lansdale**	**ML54190**	**(3668)**
		SL54190	
♦ SN54190	Rochester	54190	
SN54191	**Lansdale**	**ML54191**	**(3668)**
		SL54191	
♦ SN54191	Rochester	7562	
SN54192	Lansdale	SL54192	
♦ SN54192	**Lansdale**	**ML54192**	**(3668)**
	Rochester	54192	
SN54193	Lansdale	SL54193	
♦ SN54193	**Lansdale**	**ML54193**	**(3668)**
	Rochester	54193	
		7563	
SN54195	Lansdale	SL54195	
♦ SN54195	**Lansdale**	**ML54195**	**(3668)**
	Rochester	54195	
♦ SN54196	**Lansdale**	**ML54196**	**(3668)**
	Rochester	54196	
♦ SN54197	**Lansdale**	**ML54197**	**(3668)**
	Rochester	54197	
		7683	
♦ SN54198	Lansdale	ML54198	
		SL54198	
♦ SN54198	Rochester	54198	
SN54199	Lansdale	SL54199	
♦ SN54199	Lansdale	ML54199	
	Rochester	54199	
SN5420	Lansdale	SL5420	
♦ SN5420	**Lansdale**	**ML5420**	**(3668)**
	Rochester	5420	
♦ SN5422	Rochester	5422	
SN54221	Lansdale	SL54221	
♦ SN54221	Rochester	54221	
SN5423	**Lansdale**	**ML5423**	**(3668)**
♦ SN5423	Rochester	5423	
♦ SN54247	Rochester	54247	
♦ SN54251	Rochester	54251	
SN5426	Lansdale	SL5426	
♦ SN5426	**Lansdale**	**ML5426**	**(3668)**
		SL8T18	
♦ SN5426	Rochester	5426	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN5427	**Lansdale**	**ML5427**	**(3668)**
		SL5427	
♦ SN5427	Rochester	5427	
SN54279	Lansdale	ML54279	
		SL54279	
SN54293	**Lansdale**	**ML54293**	**(3668)**
♦ SN54293	Rochester	54293	
SN5430	Lansdale	SL5430	
♦ SN5430	**Lansdale**	**ML5430**	**(3668)**
	Rochester	5430	
SN5432	Lansdale	SL5432	
♦ SN5432	Rochester	5432	
		7032	
SN54365	Rochester	54365	
SN5437	**Lansdale**	**ML5437**	**(3668)**
		SL5437	
♦ SN5437	Rochester	5437	
		7037	
SN5438	Lansdale	SL5438	
♦ SN5438	**Lansdale**	**ML5438**	**(3668)**
	Rochester	5438	
SN5440	Lansdale	SL5440	
♦ SN5440	**Lansdale**	**ML5440**	**(3668)**
	Rochester	5440	
♦ SN5442	**Lansdale**	**ML5442**	**(3668)**
	Rochester	5442	
♦ SN5443	**Lansdale**	**ML5443**	**(3668)**
	Rochester	5443	
♦ SN5444	**Lansdale**	**ML5444**	**(3668)**
	Rochester	5444	
SN5445	Lansdale	SL5445	
♦ SN5445	Lansdale	ML5445	
SN5448	Lansdale	ML5448	
		SL5448	
♦ SN5448	Rochester	5448	
SN5449	Lansdale	ML5449	
♦ SN5449	Rochester	5449	
SN545LS95	Rochester	54LS95	
SN5450	Lansdale	SL5450	
♦ SN5450	**Lansdale**	**ML5450**	**(3668)**
	Rochester	5450	
SN5451	Lansdale	SL5451	
♦ SN5451	**Lansdale**	**ML5451**	**(3668)**
♦ SN5453	**Lansdale**	**ML5453**	**(3668)**
		SL5453	
♦ SN5453	Rochester	5453	
♦ SN5454	**Lansdale**	**ML5454**	**(3668)**
		SL5454	
♦ SN5454	Rochester	5454	
♦ SN5460	Lansdale	ML5460	
		SL5460	
♦ SN5460	Rochester	5460	
♦ SN5470	**Lansdale**	**ML5470**	**(3668)**
		SL5470	
♦ SN5470	Rochester	5470	
♦ SN5472	**Lansdale**	**ML5472**	**(3668)**
		SL5472	
♦ SN5472	Rochester	5472	
SN5473	Lansdale	SL5473	
♦ SN5473	**Lansdale**	**ML5473**	**(3668)**
SN5474	Lansdale	SL5474	
♦ SN5474	**Lansdale**	**ML5474**	**(3668)**
	Rochester	5474	
		7510	
SN5475	**Lansdale**	**ML5475**	**(3668)**
		SL5475	
♦ SN5475	Rochester	5475	
		7550	
SN5476	Lansdale	SL5476	
♦ SN5476	**Lansdale**	**ML5475**	**(3668)**
		ML5476	**(3668)**
♦ SN5476	Rochester	5476	
♦ SN54796	Lansdale	ML8290	
		SL8290	
♦ SN54797	Lansdale	ML8291	
		SL8291	
♦ SN5480	**Lansdale**	**ML5480**	**(3668)**
		SL5480	
♦ SN5480	Rochester	5480	
♦ SN5482	Rochester	5482	
SN5483	Lansdale	SL5483	
♦ SN5483	**Lansdale**	**ML5483**	**(3668)**
SN5485	**Lansdale**	**ML5485**	**(3668)**
		SL5485	
♦ SN5485	Rochester	5485	
		7201	
SN5486	Lansdale	SL5486	
♦ SN5486	**Lansdale**	**ML5486**	**(3668)**
SN5490	Lansdale	SL5490	
♦ SN5490	Lansdale	ML5490	
	Rochester	5490	
♦ SN5491	**Lansdale**	**ML5491A**	**(3668)**
	Rochester	5491	
SN5492	Lansdale	SL5492	
♦ SN5492	Lansdale	ML5492	
	Rochester	5492	
SN5493	Lansdale	SL5493	
♦ SN5493	Lansdale	ML5493	
	Rochester	5493	
SN5494	Lansdale	SL5494	
♦ SN5494	**Lansdale**	**ML5494**	**(3668)**
	Rochester	5494	
SN5495	Lansdale	SL5495	
♦ SN5495	Lansdale	ML5495	
	Rochester	5495	
SN5496	Lansdale	SL5496	
♦ SN5496	**Lansdale**	**ML5496**	**(3668)**
	Rochester	5496	
♦ SN5510	Lansdale	ML1510	
SN55107	Philips	NE521	
SN55107B	National	DS55107	
SN55108B	National	DS55108	
SN55110	Motorola	MC75S110	
♦ SN55110	Rochester	55110	
SN55110A	National	DS55110A	
SN55113	National	DS55113	
SN55114	National	DS9614	
SN55115	National	DS9615	
♦ SN55117	Rochester	55117	
♦ SN55118	Rochester	55118	
♦ SN55120	Rochester	55120	
SN55122	National	DS55122	
♦ SN55140	Rochester	55140	
♦ SN55141	Rochester	55141	
♦ SN55142	Rochester	55142	
♦ SN55143	Rochester	55143	
♦ SN55150	Rochester	55150	
♦ SN55152	Rochester	55152	
♦ SN55154	Rochester	55154	
♦ SN55157	Rochester	55157	
♦ SN55160	Rochester	55160	
♦ SN55161	Rochester	55161	
SN55182	National	DS7820A	
SN55183	National	DS7830	
SN55189	Linfinity Micro	SG1468	
♦ SN5520	Rochester	5520	
SN5522	Rochester	5522	
♦ SN55234	Rochester	55234	
♦ SN5524	Rochester	5524	
♦ SN55322	Rochester	55322	
♦ SN55325	Rochester	55325	
♦ SN55326	Rochester	55326	
♦ SN55357	Rochester	55357	
♦ SN55363	Rochester	55363	
♦ SN55364	Rochester	55364	
♦ SN55365	Rochester	55365	
♦ SN55369	Rochester	55369	
♦ SN55426	Rochester	55426	
♦ SN55446	Rochester	55446	
♦ SN55450	Rochester	55450	
SN55461	Rochester	55461	
♦ SN55469	Rochester	55469	
♦ SN55471	Rochester	55471	
♦ SN55472	Rochester	55472	
♦ SN55473	Rochester	55473	
♦ SN55474	Rochester	55474	
♦ SN55478	Rochester	55478	
SN65176B	National	DS75176BT	
SN65512	Allegro Micro	UCQ5811	
SN74ABT2952	Quality Semi	QS29FCT52	
SN74ABT2953	Quality Semi	QS29FCT53	
SN74ACT2140	Toshiba	TC55187	
SN74ACT2152A-20	TI	SN74ACT2152A-25	
SN74ACT2152A-25	TI	SN74ACT2152A-20	
SN74ACT2154A-20	TI	SN74ACT2154A-25	
SN74ACT2154A-25	TI	SN74ACT2154A-20	
♦ SN74ACT2155-22	TI	SN74ACT2163-20	
SN74ACT2440	TI	SN74ACT2441	
SN74ACT2441	TI	SN74ACT2440	
SN74ACT29116	Cypress	CY7C9116A	
	Harris	CD74ACT297	
♦ SN74ACT4503	Motorola	MC74ACT4020	
SN74ACT7201A	Mosel-Vitelic	7201A	
SN74ACT7202	Mosel-Vitelic	7202A	
		7203	
♦ SN74ACT8818A	TI	SN74ACT8816	
SN74ACT8847	TI	SN74ACT8867	
SN74ACT8867	TI	SN74ACT8847	
SN74AC210	Toshiba	TC55187	
SN74ALS00	Rochester	74ALS00	
SN74ALS00A	National	DM74ALS00	
	Philips	74ALS00A	
SN74ALS01	National	DM74ALS01	
SN74ALS02	Mitsubishi	M74ALS02	
	National	DM74ALS02	
	Philips	74ALS02	
SN74ALS03B	Mitsubishi	M74ALS03B	
	National	DM74ALS03	
SN74ALS04B	Mitsubishi	M74ALS04B	
	National	DM74ALS04	
	Philips	74ALS04B	
SN74ALS05A	Mitsubishi	M74ALS05A	
	National	DM74ALS05	
SN74ALS08	Mitsubishi	M74ALS08	
	National	DM74ALS08	
	Philips	74ALS08	
SN74ALS09A	Mitsubishi	M74ALS09	
	National	DM74ALS09	
SN74ALS10	Rochester	74ALS10	
SN74ALS10A	Mitsubishi	M74ALS10A	
	National	DM74ALS10	
	Philips	74ALS10A	
SN74ALS1000A	Mitsubishi	M74ALS1000A	
	National	DM74ALS1000	
SN74ALS1002A	Mitsubishi	M74ALS1002A	
	National	DM74ALS1002	
SN74ALS1003A	Mitsubishi	M74ALS1003A	
	National	DM74ALS1003	
SN74ALS1004	Mitsubishi	M74ALS1004	
	National	DM74ALS1004	
SN74ALS1005	Mitsubishi	M74ALS1005	
	National	DM74ALS1005	
SN74ALS1008A	Mitsubishi	M74ALS1008A	
	National	DM74ALS1008	
SN74ALS1010A	Mitsubishi	M74ALS1010A	
	National	DM74ALS1010	
♦ SN74ALS1011	Rochester	74ALS1011	
SN74ALS1011A	Mitsubishi	M74ALS1011A	
	National	DM74ALS1011	
SN74ALS1020A	Mitsubishi	M74ALS1020A	
	National	DM74ALS1020	
SN74ALS1032A	Mitsubishi	M74ALS1032A	
	National	DM74ALS1032	
SN74ALS1034	Mitsubishi	M74ALS1034	
	National	DM74ALS1034	
SN74ALS1035	Mitsubishi	M74ALS1035	
	National	DM74ALS1035	
SN74ALS109	Mitsubishi	M74ALS109A	
	National	DM74ALS109	
	Philips	74ALS109A	
SN74ALS11A	Mitsubishi	M74ALS11A	
	National	DM74ALS11	
	Philips	74ALS11A	
SN74ALS112A	Mitsubishi	M74ALS112A	
	Philips	74ALS112A	
SN74ALS113A	Mitsubishi	M74ALS113A	
SN74ALS114A	Mitsubishi	M74ALS114A	
SN74ALS12A	Mitsubishi	M74ALS12A	
	National	DM74ALS12	
SN74ALS1240	Mitsubishi	M74ALS1240A	
	National	DM74ALS1240	
	TI	SN74ALS1240-1	
SN74ALS1240-1	Mitsubishi	M74ALS1240A	
	National	DM74ALS1240	
	TI	SN74ALS1240	
SN74ALS1242	Mitsubishi	M74ALS1242A	
	National	DM74ALS1242	
	TI	SN74ALS1242-1	
SN74ALS1242-1	Mitsubishi	M74ALS1242A	
	National	DM74ALS1242	
	TI	SN74ALS1242	
SN74ALS1244A	Mitsubishi	M74ALS1244A	
	National	DM74ALS1244	
	TI	SN74ALS1244A-1	
SN74ALS1244A-1	Mitsubishi	M74ALS1244A	
	National	DM74ALS1244	
	TI	SN74ALS1244A	
SN74ALS1245A	Mitsubishi	M74ALS1245A	
	TI	SN74ALS1245A-1	
SN74ALS1245A-1	Mitsubishi	M74ALS1245A	
	TI	SN74ALS1245A	
SN74ALS131	Mitsubishi	M74ALS131	
	National	DM74ALS131	
SN74ALS133	Mitsubishi	M74ALS133	
	National	DM74ALS132	
		DM74ALS133	
SN74ALS136	National	DM74ALS136	
SN74ALS137	Mitsubishi	M74ALS137	
	National	DM74ALS137	
SN74ALS138	Mitsubishi	M74ALS138	
	National	DM74ALS138	
	Philips	74ALS138	
	Rochester	74ALS138	
SN74ALS139	Philips	74ALS139	
SN74ALS15A	Mitsubishi	M74ALS15A	
	National	DM74ALS14	
		DM74ALS15	
SN74ALS151	Mitsubishi	M74ALS151	
	National	DM74ALS151	
	Philips	74ALS151	
SN74ALS153	Mitsubishi	M74ALS153	
	National	DM74ALS153	
	Philips	74ALS153	
SN74ALS154	TI	SN74ALS155	
SN74ALS155	TI	SN74ALS154	
SN74ALS156	Mitsubishi	M74ALS157	
	National	DM74ALS157	
	Philips	74ALS157	
	TI	SN74ALS157	
SN74ALS157	Mitsubishi	M74ALS157	
	National	DM74ALS157	
	Philips	74ALS157	
	TI	SN74ALS156	
SN74ALS158	Mitsubishi	M74ALS158	
	National	DM74ALS158	
	Philips	74ALS158	
SN74ALS160B	Mitsubishi	M74ALS160B	
	National	DM74ALS160	
SN74ALS161B	Mitsubishi	M74ALS161B	
	National	DM74ALS161	
	Philips	74ALS161B	
SN74ALS162B	Mitsubishi	M74ALS162B	
	National	DM74ALS162	
SN74ALS163B	Mitsubishi	M74ALS163B	
	National	DM74ALS163	
	Philips	74ALS163B	
SN74ALS164	Philips	74ALS164	
SN74ALS1640A	Mitsubishi	M74ALS1640A	
	TI	SN74ALS1640A-1	
SN74ALS1640A-1	Mitsubishi	M74ALS1640A	
	TI	SN74ALS1640A	
SN74ALS1645A	Mitsubishi	M74ALS1645A	
	TI	SN74ALS1645A-1	
SN74ALS1645A-1	Mitsubishi	M74ALS1645A	
	TI	SN74ALS1645A	
SN74ALS165	National	DM74ALS165	
SN74ALS166	National	DM74ALS166	
SN74ALS168B	Mitsubishi	M74ALS168B	
	National	DM74ALS168	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SN74ALS169B	Mitsubishi	M74ALS169B	
	National	DM74ALS169	
SN74ALS174	Mitsubishi	M74ALS174	
	National	DM74ALS174	
	Philips	74ALS174	
	Rochester	74ALS174	
SN74ALS175	Mitsubishi	M74ALS175	
	National	DM74ALS175	
	Philips	74ALS175	
SN74ALS1804A	TI	SN74ALS1805A	
SN74ALS1805A	TI	SN74ALS1804A	
SN74ALS1808A	TI	SN74ALS1832A	
SN74ALS1832A	TI	SN74ALS1808A	
SN74ALS190	Mitsubishi	M74ALS190	
SN74ALS191	Mitsubishi	M74ALS191	
	Philips	74ALS191	
SN74ALS192	Mitsubishi	M74ALS192	
SN74ALS193	Mitsubishi	M74ALS193	
	Philips	74ALS193	
SN74ALS20A	Mitsubishi	M74ALS20A	
	National	DM74ALS20	
	Philips	74ALS20A	
SN74ALS21A	Mitsubishi	M74ALS21A	
	National	DM74ALS21	
SN74ALS22B	Mitsubishi	M74ALS22B	
	National	DM74ALS22	
SN74ALS2232	TI	SN74ALS2233	
SN74ALS2233	TI	SN74ALS2232	
SN74ALS2240	TI	SN74ALS2242	
SN74ALS2242	TI	SN74ALS2240	
♦ SN74ALS2242	Rochester	74ALS2242	
SN74ALS2244	TI	SN74ALS229A	
SN74ALS229A	TI	SN74ALS2244	
SN74ALS2299	TI	SN74ALS231	
SN74ALS231	TI	SN74ALS2299	
♦ SN74ALS231	Rochester	74ALS231	
♦ SN74ALS231-1	TI	SN74ALS2299	
		SN74ALS231	
SN74ALS232	TI	SN74ALS232A	
SN74ALS232A	TI	SN74ALS232	
SN74ALS2323	TI	SN74ALS233A	
SN74ALS233A	TI	SN74ALS2323	
SN74ALS234	IDT	IDT72403	
	TI	SN74ALS235	
SN74ALS235	IDT	IDT72413	
	TI	SN74ALS234	
SN74ALS236	IDT	IDT72401	
	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS240A	
		SN74ALS240A-1	
SN74ALS240	Harris	CD74FCT240	
	Rochester	74ALS240	
SN74ALS240A	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A-1	
SN74ALS240A-1	Mitsubishi	M74ALS240A	
		M74ALS240A-1	
	National	DM74ALS240	
		DM74ALS240A	
		DM74ALS240A-1	
			(Continued)
SN74ALS240A-1 (Cont'd)	Philips	74ALS240A	
		74ALS240A-1	
	TI	SN74ALS236	
		SN74ALS240A	
SN74ALS241	Harris	CD74FCT241	
	Rochester	74ALS241	
SN74ALS241A	Mitsubishi	M74ALS241A	
		M74ALS241A-1	
	National	DM74ALS241	
		DM74ALS241A	
	Philips	74ALS241A-1	
	TI	SN74ALS241A-1	
SN74ALS241A-1	Mitsubishi	M74ALS241A	
		M74ALS241A-1	
	National	DM74ALS241	
		DM74ALS241A	
	Philips	74ALS241A-1	
	TI	SN74ALS241A	
SN74ALS242B	Mitsubishi	M74ALS242A	
	National	DM74ALS242	
	TI	SN74ALS242B-1	
SN74ALS242B-1	Mitsubishi	M74ALS242A	
	National	DM74ALS242	
	TI	SN74ALS242B	
SN74ALS243A	Mitsubishi	M74ALS243A	
	National	DM74ALS243	
	TI	SN74ALS243A-1	
SN74ALS243A-1	Mitsubishi	M74ALS243A	
	National	DM74ALS243	
	TI	SN74ALS243A	
SN74ALS244	Harris	CD74FCT244	
	Rochester	74ALS244	
SN74ALS244A	Mitsubishi	M74ALS244A	
		M74ALS244A-1	
	National	DM74ALS244	
	Philips	74ALS244A	
		74ALS244A-1	
	TI	SN74ALS244A-1	
SN74ALS244A-1	Mitsubishi	M74ALS244A	
		M74ALS244A-1	
	National	DM74ALS244	
	Philips	74ALS244A	
		74ALS244A-1	
	TI	SN74ALS244A	
SN74ALS2442	Mitsubishi	M74ALS245A	
		M74ALS245A-1	
	National	DM74ALS245	
	Philips	74ALS245A	
		74ALS245A-1	
	TI	SN74ALS245A	
		SN74ALS245A-1	
SN74ALS245	Harris	CD74FCT245	
	Rochester	74ALS245	
SN74ALS245A	Mitsubishi	M74ALS245A	
		M74ALS245A-1	
	National	DM74ALS245	
	Philips	74ALS245A	
		74ALS245A-1	
	TI	SN74ALS2442	
		SN74ALS245A-1	
SN74ALS245A-1	Mitsubishi	M74ALS245A	
		M74ALS245A-1	
	National	DM74ALS245	
	Philips	74ALS245A	
		74ALS245A-1	
	TI	SN74ALS2442	
		SN74ALS245A	
SN74ALS251	Mitsubishi	M74ALS251	
	National	DM74ALS251	
	Philips	74ALS251	
	Rochester	74ALS251	
SN74ALS253	Mitsubishi	M74ALS253	
	National	DM74ALS253	
	Philips	74ALS253	
	Rochester	74ALS253A	
SN74ALS2540	TI	SN74ALS2541	
SN74ALS2541	TI	SN74ALS2540	
SN74ALS257	Mitsubishi	M74ALS257	
	National	DM74ALS257	
			(Continued)
SN74ALS257 (Cont'd)	Philips	74ALS257	
	Rochester	74ALS257	
SN74ALS258	Mitsubishi	M74ALS258	
	National	DM74ALS258	
	Philips	74ALS258	
	Rochester	74ALS258	
SN74ALS259	National	DM74ALS27	
	Philips	74ALS27	
	TI	SN74ALS27	
SN74ALS27	National	DM74ALS27	
	Philips	74ALS27	
	TI	SN74ALS259	
SN74ALS273	Harris	CD74FCT273	
	Mitsubishi	M74ALS273	
	National	DM74ALS273	
	Philips	74ALS273	
SN74ALS28A	Mitsubishi	M74ALS28A	
	National	DM74ALS28	
SN74ALS280	TI	SN74ALS29806	
SN74ALS29806	TI	SN74ALS280	
♦ SN74ALS29806	Rochester	74ALS29806	
SN74ALS29809	TI	SN74ALS29818	
♦ SN74ALS29809	Rochester	74ALS29809	
SN74ALS29818	AMD	AM29C818A	
	TI	SN74ALS29809	
SN74ALS29818FN	TI	AM29818A	
SN74ALS29821	AMD	AM29C821A	
		AM29821	
	TI	SN74ALS29822	
SN74ALS29822	TI	SN74ALS29821	
SN74ALS29823	AMD	AM29C823A	
		AM29823	
	TI	SN74ALS29824	
SN74ALS29824	TI	SN74ALS29823	
SN74ALS29825	TI	SN74ALS29826	
SN74ALS29826	TI	SN74ALS29825	
SN74ALS29827	AMD	AM29C827A	
		AM29827	
	TI	SN74ALS29828	
SN74ALS29828	AMD	AM29C828A	
	TI	SN74ALS29827	
SN74ALS29833	AMD	AM29C833A	
SN74ALS29841	AMD	AM29C841A	
		AM29841	
	TI	SN74ALS29842	
SN74ALS29842	TI	SN74ALS29841	
SN74ALS29843	AMD	AM29C843A	
		AM29843	
	TI	SN74ALS29844	
SN74ALS29844	TI	SN74ALS29843	
SN74ALS29845	TI	SN74ALS29846	
SN74ALS29846	TI	SN74ALS29845	
SN74ALS29853	AMD	AM29C853A	
SN74ALS29861	AMD	AM29C861A	
	TI	SN74ALS29862	
SN74ALS29862	TI	SN74ALS29861	
SN74ALS29863	AMD	AM29C863A	
	National	DM74ALS29863	
SN74ALS29864	TI	SN74ALS299	
SN74ALS299	TI	SN74ALS29864	
SN74ALS30	Rochester	74ALS30	
SN74ALS30A	Mitsubishi	M74ALS30A	
	National	DM74ALS30	
	Philips	74ALS30A	
SN74ALS32	National	DM74ALS32	
	Philips	74ALS32	
	Rochester	74ALS32	
			(Continued)
SN74ALS33A	Mitsubishi	M74ALS33A	
	National	DM74ALS33	
SN74ALS34	TI	SN74ALS35A	
SN74ALS35A	TI	SN74ALS34	
SN74ALS352	Mitsubishi	M74ALS352	
	National	DM74ALS352	
SN74ALS353	Mitsubishi	M74ALS353	
	National	DM74ALS353	
SN74ALS37A	Mitsubishi	M74ALS37A	
	National	DM74ALS37	
SN74ALS373	Harris	CD74FCT373	
	Mitsubishi	M74ALS373	
	National	DM74ALS373	
	Philips	74ALS373	
	Rochester	74ALS373	
SN74ALS374	Harris	CD74FCT374	
	Mitsubishi	M74ALS374	
	National	DM74ALS374	
		DM74ALS374A	
	Philips	74ALS374	
	TI	SN74ALS374A	
SN74ALS374A	Mitsubishi	M74ALS374	
	National	DM74ALS374	
		DM74ALS374A	
	Philips	74ALS374	
	TI	SN74ALS374	
SN74ALS38	Rochester	74ALS38	
SN74ALS38A	Mitsubishi	M74ALS38A	
	National	DM74ALS38	
	Philips	74ALS38A	
SN74ALS40A	Mitsubishi	M74ALS40A	
	National	DM74ALS40	
SN74ALS465A	Mitsubishi	M74ALS465A	
	National	DM74ALS465	
SN74ALS466A	Mitsubishi	M74ALS466A	
	National	DM74ALS466	
♦ SN74ALS467	Rochester	74ALS467	
SN74ALS467A	Mitsubishi	M74ALS467A	
	National	DM74ALS467	
♦ SN74ALS468	Rochester	74ALS468	
SN74ALS468A	Mitsubishi	M74ALS468A	
	National	DM74ALS468	
SN74ALS518	National	DM74ALS518	
SN74ALS519	National	DM74ALS519	
SN74ALS520	National	DM74ALS520	
SN74ALS521	National	DM74ALS521	
	Rochester	74ALS521	
SN74ALS522	National	DM74ALS522	
SN74ALS527	Mitsubishi	M74ALS533	
	National	DM74ALS533	
	TI	SN74ALS533	
SN74ALS533	Harris	CD74FCT533	
	Mitsubishi	M74ALS533	
	National	DM74ALS533	
	TI	SN74ALS527	
SN74ALS534	Harris	CD74FCT534	
	Mitsubishi	M74ALS534	
	National	DM74ALS534	
	Rochester	74ALS534	
	TI	SN74ALS534A	
SN74ALS534A	Mitsubishi	M74ALS534	
	National	DM74ALS534	
	TI	SN74ALS534	
SN74ALS540	Harris	CD74FCT540	
	TI	SN74ALS540-1	
SN74ALS540-1	TI	SN74ALS540	
SN74ALS541	Harris	CD74FCT541	
	TI	SN74ALS541-1	
SN74ALS541-1	TI	SN74ALS541	
SN74ALS560A	Mitsubishi	M74ALS560A	
SN74ALS563	Harris	CD74FCT563	
	Mitsubishi	M74ALS563A	
	National	DM74ALS563	
	Philips	74ALS563A	
	TI	SN74ALS563A	
SN74ALS563A	Mitsubishi	M74ALS563A	
	National	DM74ALS563	
	Philips	74ALS563A	
	TI	SN74ALS563	
SN74ALS564	Harris	CD74FCT564	
	Mitsubishi	M74ALS564A	
	National	DM74ALS564	
	Philips	74ALS564A	
	TI	SN74ALS564A	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74ALS564A	Mitsubishi	M74ALS564A	
	National	DM74ALS564	
	Philips	74ALS564A	
	TI	SN74ALS564	
SN74ALS568A	Mitsubishi	M74ALS568A	
SN74ALS569A	Mitsubishi	M74ALS569A	
SN74ALS573	Harris	CD74FCT573	
	Mitsubishi	M74ALS573B	
	National	DM74ALS573	
	Philips	74ALS573B	
	Rochester	74ALS573	
	TI	SN74ALS573B	
SN74ALS573B	Mitsubishi	M74ALS573B	
	National	DM74ALS573	
	Philips	74ALS573B	
	TI	SN74ALS573	
SN74ALS574	Harris	CD74FCT574	
	Mitsubishi	M74ALS574A	
	National	DM74ALS574	
	Philips	74ALS574A	
	Rochester	74ALS574	
	TI	SN74ALS574A	
SN74ALS574A	Mitsubishi	M74ALS574A	
	National	DM74ALS574	
	Philips	74ALS574A	
	TI	SN74ALS574	
SN74ALS575A	Mitsubishi	M74ALS575A	
SN74ALS576	Mitsubishi	M74ALS576A	
	National	DM74ALS576	
	TI	SN74ALS576A	
SN74ALS576A	Mitsubishi	M74ALS576A	
	National	DM74ALS576	
	TI	SN74ALS576	
SN74ALS577A	Mitsubishi	M74ALS577A	
SN74ALS580	Mitsubishi	M74ALS580A	
	National	DM74ALS580	
	TI	SN74ALS580A	
SN74ALS580A	Mitsubishi	M74ALS580A	
	National	DM74ALS580	
	TI	SN74ALS580	
♦ SN74ALS614	Rochester	74ALS614	
SN74ALS614-1	Mitsubishi	M74ALS620A M74ALS620A-1	
	Philips	74ALS620A 74ALS620A-1	
	TI	SN74ALS620A SN74ALS620A-1	
♦ SN74ALS615	Rochester	74ALS615	
SN74ALS620A	Mitsubishi	M74ALS620A M74ALS620A-1	
	Philips	74ALS620A 74ALS620A-1	
	TI	SN74ALS614-1 SN74ALS620A-1	
SN74ALS620A-1	Mitsubishi	M74ALS620A M74ALS620A-1	
	Philips	74ALS620A 74ALS620A-1	
	TI	SN74ALS614-1 SN74ALS620A	
SN74ALS621A	Mitsubishi	M74ALS621A	
	TI	SN74ALS621A-1	
SN74ALS621A-1	Mitsubishi	M74ALS621A	
	TI	SN74ALS621A	
SN74ALS622A	Mitsubishi	M74ALS622A	
	TI	SN74ALS622A-1	
SN74ALS622A-1	Mitsubishi	M74ALS622A	
	TI	SN74ALS622A	
SN74ALS623	Harris	CD74FCT623	
SN74ALS623A	Mitsubishi	M74ALS623A M74ALS623A-1	
	Philips	74ALS623A 74ALS623A-1	
	TI	SN74ALS623A-1	
SN74ALS623A-1	Mitsubishi	M74ALS623A M74ALS623A-1	
	Philips	74ALS623A 74ALS623A-1	
	TI	SN74ALS623A	
♦ SN74ALS6300	TI	SN74ALS6301	
♦ SN74ALS6310	TI	SN74ALS6302	
♦ SN74ALS632A	TI	SN74ALS6311	
♦ SN74ALS632B	TI	SN74ALS6311	
SN74ALS638A	TI	SN74ALS638A-1	
SN74ALS638A-1	TI	SN74ALS638A	
SN74ALS639A	TI	SN74ALS639A-1	
SN74ALS639A-1	TI	SN74ALS639A	
SN74ALS640A	Mitsubishi	M74ALS640A M74ALS640A-1	
	National	DM74ALS640	
	TI	SN74ALS640A-1	
SN74ALS640A-1	Mitsubishi	M74ALS640A M74ALS640A-1	
	National	DM74ALS640	
	TI	SN74ALS640A	
SN74ALS641A	Mitsubishi	M74ALS641A	
	TI	SN74ALS641A-1	
SN74ALS641A-1	Mitsubishi	M74ALS641A	
	TI	SN74ALS641A	
SN74ALS642A	Mitsubishi	M74ALS642A	
	TI	SN74ALS642A-1	
SN74ALS642A-1	Mitsubishi	M74ALS642A	
	TI	SN74ALS642A	
SN74ALS643A	Mitsubishi	M74ALS643A	
	TI	SN74ALS643A-1	
SN74ALS643A-1	Mitsubishi	M74ALS643A	
	TI	SN74ALS643A	
SN74ALS644A	Mitsubishi	M74ALS644A	
	TI	SN74ALS644A-1	
♦ SN74ALS644A	Rochester	74ALS644A	
SN74ALS644A-1	Mitsubishi	M74ALS644A	
	TI	SN74ALS644A	
SN74ALS645A	Mitsubishi	M74ALS645A M74ALS645A-1	
	National	DM74ALS645	
	Philips	74ALS645A 74ALS645A-1	
	TI	SN74ALS645A-1	
SN74ALS645A-1	Mitsubishi	M74ALS645A M74ALS645A-1	
	National	DM74ALS645	
	Philips	74ALS645A 74ALS645A-1	
	TI	SN74ALS645A	
SN74ALS646	Harris	CD74FCT646	
	Mitsubishi	M74ALS646	
	Philips	74ALS646 74ALS646-1	
	TI	SN74ALS646-1	
SN74ALS646-1	Mitsubishi	M74ALS646	
	Philips	74ALS646 74ALS646-1	
	TI	SN74ALS646	
SN74ALS647	Harris	CD74FCT647	
	Mitsubishi	M74ALS647	
	TI	SN74ALS647-1	
SN74ALS647-1	Mitsubishi	M74ALS647	
	TI	SN74ALS647	
SN74ALS648	Harris	CD74FCT648	
	Mitsubishi	M74ALS648	
	National	DM74ALS648 DM74ALS648-1	
	Philips	74ALS648 74ALS648-1	
	TI	SN74ALS648-1	
SN74ALS648-1	Mitsubishi	M74ALS648	
	National	DM74ALS648 DM74ALS648-1	
	Philips	74ALS648 74ALS648-1	
	TI	SN74ALS648	
SN74ALS649	Harris	CD74FCT649	
	Mitsubishi	M74ALS649	
	TI	SN74ALS649-1	
♦ SN74ALS649	Rochester	74ALS649	
SN74ALS649-1	Mitsubishi	M74ALS649	
	TI	SN74ALS649	
SN74ALS651	Harris	CD74FCT651	
	Mitsubishi	M74ALS651	
	National	DM74ALS651 DM74ALS651-1	
	Philips	74ALS651 74ALS651-1	
	TI	SN74ALS651-1	
SN74ALS651-1	Mitsubishi	M74ALS651	
	National	DM74ALS651 DM74ALS651-1	
	Philips	74ALS651 74ALS651-1	
	TI	SN74ALS651	
SN74ALS652	Harris	CD74FCT652	
	Mitsubishi	M74ALS652	
	Philips	74ALS652 74ALS652-1	
	TI	SN74ALS652-1	
SN74ALS652-1	Mitsubishi	M74ALS652	
	Philips	74ALS652 74ALS652-1	
	TI	SN74ALS652	
SN74ALS653	Harris	CD74FCT653	
	TI	SN74ALS653-1	
SN74ALS653-1	TI	SN74ALS653	
SN74ALS654	Harris	CD74FCT654	
	TI	SN74ALS654-1	
SN74ALS654-1	TI	SN74ALS654	
SN74ALS666	TI	SN74ALS667	
SN74ALS667	TI	SN74ALS666	
SN74ALS677A	TI	SN74ALS678	
SN74ALS678	TI	SN74ALS677A	
♦ SN74ALS678	Rochester	74ALS678	
SN74ALS679	TI	SN74ALS680	
SN74ALS680	TI	SN74ALS679	
SN74ALS688	National	DM74ALS689	
	TI	SN74ALS689	
SN74ALS689	National	DM74ALS689	
	TI	SN74ALS688	
SN74ALS74	Rochester	74ALS74	
SN74ALS74A	Mitsubishi	M74ALS74A	
	National	DM74ALS74	
	Philips	74ALS74A	
SN74ALS746	TI	SN74ALS746-1	
SN74ALS746-1	TI	SN74ALS746	
SN74ALS747	TI	SN74ALS747-1	
SN74ALS747-1	TI	SN74ALS747	
SN74ALS756	TI	SN74ALS756-1	
SN74ALS756-1	TI	SN74ALS756	
SN74ALS757	TI	SN74ALS758	
SN74ALS758	TI	SN74ALS757	
SN74ALS760	TI	SN74ALS763	
SN74ALS763	TI	SN74ALS760	
SN74ALS8003A	National	DM74ALS804	
	TI	SN74ALS804A	
SN74ALS804A	National	DM74ALS804	
	TI	SN74ALS8003A	
SN74ALS805A	National	DM74ALS805	
SN74ALS808A	National	DM74ALS808	
SN74ALS810	National	DM74ALS810	
SN74ALS811	National	DM74ALS811	
SN74ALS812	TI	SN74ALS8161	
♦ SN74ALS812	Rochester	74ALS812	
SN74ALS8161	TI	SN74ALS812	
♦ SN74ALS8161	Rochester	74ALS8161	
SN74ALS8163	TI	SN74ALS8169	
♦ SN74ALS8163	Rochester	74ALS8163	
SN74ALS8169	TI	SN74ALS8163	
SN74ALS819	National	DM74ALS832	
	TI	SN74ALS832A	
SN74ALS832A	National	DM74ALS832	
	TI	SN74ALS819	
SN74ALS841	Harris	CD74FCT841	
	TI	SN74ALS842 SN74ALS842-1	
SN74ALS842	Harris	CD74FCT842	
	TI	SN74ALS841 SN74ALS842-1	
SN74ALS842-1	TI	SN74ALS841 SN74ALS842	
SN74ALS843	Harris	CD74FCT843	
	TI	SN74ALS843-1	
SN74ALS843-1	TI	SN74ALS843	
SN74ALS844	Harris	CD74FCT844	
	TI	SN74ALS844-1	
SN74ALS844-1	TI	SN74ALS844	
SN74ALS845	TI	SN74ALS845-1	
SN74ALS845-1	TI	SN74ALS845	
SN74ALS846	TI	SN74ALS846-1	
SN74ALS846-1	TI	SN74ALS846	
SN74ALS857	National	DM74ALS86	
	Philips	74ALS86	
	TI	SN74ALS86	
SN74ALS86	National	DM74ALS86	
	Philips	74ALS86	
	TI	SN74ALS857	
SN74ALS867A	TI	SN74ALS869	
SN74ALS869	TI	SN74ALS867A	
SN74ALS870	TI	SN74ALS871	
SN74ALS871	TI	SN74ALS870	
SN74ALS873B	Mitsubishi	M74ALS873B	
	National	DM74ALS873	
SN74ALS874B	Mitsubishi	M74ALS874B	
	National	DM74ALS874	
SN74ALS876A	Mitsubishi	M74ALS876A	
	National	DM74ALS876	
SN74ALS878A	Mitsubishi	M74ALS878A	
SN74ALS879A	Mitsubishi	M74ALS879A	
SN74ALS880A	Mitsubishi	M74ALS880A	
	National	DM74ALS880	
SN74ALS990	TI	SN74ALS991	
SN74ALS991	TI	SN74ALS990	
SN74ALS992	TI	SN74ALS993	
SN74ALS993	TI	SN74ALS992	
SN74ALS994	TI	SN74ALS995	
SN74ALS995	TI	SN74ALS994	
♦ SN74ALS995	Rochester	74ALS995	
SN74ALS996	TI	SN74ALS996-1	
SN74ALS996-1	TI	SN74ALS996	
SN74AS00	National	DM74AS00	
SN74AS02	National	DM74AS02	
SN74AS04	National	DM74AS04	
SN74AS08	National	DM74AS08	
SN74AS10	National	DM74AS10	
SN74AS1000A	National	DM74AS1000	
SN74AS1004A	National	DM74AS1004	
SN74AS1008A	National	DM74AS1008	
SN74AS1032A	National	DM74AS1032	
SN74AS1034A	National	DM74AS1034	
SN74AS1036A	National	DM74AS1036	
SN74AS109	National	DM74AS109	
SN74AS11	National	DM74AS11	
SN74AS1181	TI	SN74AS131A	
SN74AS131A	TI	SN74AS1181	
SN74AS136	TI	SN74AS137	
SN74AS137	TI	SN74AS136	
SN74AS138	TI	SN74AS151	

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♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74AS151	TI	SN74AS138	
SN74AS153	TI	SN74AS157	
SN74AS157	TI	SN74AS153	
SN74AS158	National	DM74AS158	
SN74AS160	National	DM74AS160	
SN74AS161	National	DM74AS161	
SN74AS162	National	DM74AS162	
SN74AS163	National	DM74AS163	
SN74AS168	National	DM74AS168	
♦ SN74AS168	Rochester	74AS168	
SN74AS169	National	DM74AS169	
SN74AS174	National	DM74AS174	
SN74AS175A	National	DM74AS175	
SN74AS1804	National	DM74AS1804	
SN74AS1805	National	DM74AS1805	
SN74AS1808	National	DM74AS1808	
SN74AS181B	National	DM74AS181B	
SN74AS182	National	DM74AS182	
♦ SN74AS182	Rochester	74AS182	
SN74AS1832	National	DM74AS1832	
SN74AS194	TI	SN74AS195	
SN74AS195	TI	SN74AS194	
SN74AS20	National	DM74AS20	
SN74AS21	National	DM74AS21	
SN74AS230	National	DM74AS230	
SN74AS231	National	DM74AS231	
♦ SN74AS231	Rochester	74AS231	
SN74AS240	Harris	CD74FCT240	
	National	DM74AS240	
SN74AS241	Harris	CD74FCT241	
	National	DM74AS241	
SN74AS242	National	DM74AS242	
SN74AS243	National	DM74AS243	
SN74AS244	Harris	CD74FCT244	
	National	DM74AS244	
SN74AS245	Harris	CD74FCT245	
	National	DM74AS245	
SN74AS250	TI	SN74AS251	
SN74AS251	TI	SN74AS250	
SN74AS253	National	DM74AS257	
	TI	SN74AS257	
SN74AS257	National	DM74AS257	
	TI	SN74AS253	
SN74AS258	National	DM74AS258	
SN74AS2620	National	DM74AS2620	
♦ SN74AS2620	Rochester	74AS2620	
SN74AS2623	National	DM74AS264	
	TI	SN74AS264	
SN74AS264	National	DM74AS264	
	TI	SN74AS2623	
♦ SN74AS264	Rochester	74AS264	
SN74AS2640	TI	SN74AS2645	
SN74AS2645	TI	SN74AS2640	
SN74AS27	National	DM74AS27	
SN74AS280	National	DM74AS280	
SN74AS282	National	DM74AS282	
♦ SN74AS282	Rochester	74AS282	
SN74AS286	National	DM74AS286	
SN74AS298	TI	SN74AS299	
SN74AS299	TI	SN74AS298	
SN74AS30	National	DM74AS30	
SN74AS3074	National	DM74AS32	
	TI	SN74AS32	
SN74AS32	National	DM74AS32	
	TI	SN74AS3074	
SN74AS3374	National	DM74AS34	
	TI	SN74AS34	
SN74AS34	National	DM74AS34	
	TI	SN74AS3374	
SN74AS352	TI	SN74AS353	
SN74AS353	TI	SN74AS352	
SN74AS373	Harris	CD74FCT373	
	National	DM74AS373	
SN74AS374	Harris	CD74FCT374	
	National	DM74AS374	
SN74AS4174	TI	SN74AS4374	
SN74AS4374	TI	SN74AS4174	
SN74AS533	Harris	CD74FCT533	
	National	DM74AS533	
SN74AS534	Harris	CD74FCT534	
	National	DM74AS534	
SN74AS573	Harris	CD74FCT573	
	National	DM74AS573	
	TI	SN74AS573A	
SN74AS573A	National	DM74AS573	
	TI	SN74AS573	
SN74AS574	Harris	CD74FCT574	
	National	DM74AS574	
SN74AS575	National	DM74AS575	
SN74AS576	National	DM74AS576	
SN74AS577	National	DM74AS577	
SN74AS580	National	DM74AS580	
SN74AS620	National	DM74AS620	
SN74AS621	TI	SN74AS622	
♦ SN74AS621	Rochester	74AS621	
SN74AS622	TI	SN74AS621	
♦ SN74AS622	Rochester	74AS622	
SN74AS623	Harris	CD74FCT623	
♦ SN74AS632	TI	SN74AS623	
♦ SN74AS6364	TI	SN74AS638	
SN74AS639	National	DM74AS640	
	TI	SN74AS640	
SN74AS640	National	DM74AS640	
	TI	SN74AS639	
SN74AS641	TI	SN74AS642	
SN74AS642	TI	SN74AS641	
SN74AS643	TI	SN74AS644	
SN74AS644	TI	SN74AS643	
SN74AS645	National	DM74AS645	
SN74AS646	Harris	CD74FCT646	
	National	DM74AS646	
SN74AS648	Harris	CD74FCT648	
	National	DM74AS651	
	TI	SN74AS651	
SN74AS651	Harris	CD74FCT651	
	National	DM74AS651	
	TI	SN74AS648	
SN74AS652	Harris	CD74FCT652	
	National	DM74AS652	
SN74AS74	National	DM74AS74	
SN74AS756	TI	SN74AS757	
SN74AS757	TI	SN74AS756	
SN74AS758	TI	SN74AS759	
♦ SN74AS758	Rochester	74AS758	
SN74AS759	TI	SN74AS758	
SN74AS760	TI	SN74AS762	
SN74AS762	TI	SN74AS760	
SN74AS763	National	DM74AS804A	
	TI	SN74AS804B	
SN74AS804B	National	DM74AS804A	
	TI	SN74AS763	
SN74AS805B	National	DM74AS805A	
SN74AS808	National	DM74AS808A	
	TI	SN74AS808B	
SN74AS808B	National	DM74AS808A	
	TI	SN74AS808	
SN74AS821	AMD	AM29C821A	
		AM29821	
	Harris	CD74FCT821	
	TI	SN74AS822	
SN74AS822	Harris	CD74FCT822	
	TI	SN74AS821	
SN74AS823	AMD	AM29C823A	
		AM29823	
	Harris	CD74FCT823	
	TI	SN74AS824	
SN74AS824	Harris	CD74FCT824	
	TI	SN74AS823	
SN74AS825	TI	SN74AS826	
SN74AS826	TI	SN74AS825	
SN74AS827	AMD	AM29C827A	
SN74AS828	AMD	AM29C828A	
SN74AS832B	National	DM74AS832A	
SN74AS841	AMD	AM29C841A	
		AM29841	
	Harris	CD74FCT841	
	TI	SN74AS842	
SN74AS842	Harris	CD74FCT842	
	TI	SN74AS841	
SN74AS843	AMD	AM29C843A	
		AM29843	
	Harris	CD74FCT843	
	TI	SN74AS844	
SN74AS844	Harris	CD74FCT844	
	TI	SN74AS843	
SN74AS845	TI	SN74AS846	
SN74AS846	TI	SN74AS845	
♦ SN74AS846	Rochester	74AS846	
SN74AS850	TI	SN74AS851	
SN74AS851	TI	SN74AS850	
SN74AS852	TI	SN74AS856	
♦ SN74AS852	Rochester	74AS852	
SN74AS856	TI	SN74AS852	
SN74AS857	National	DM74AS86	
	TI	SN74AS86	
SN74AS86	National	DM74AS86	
	TI	SN74AS857	
SN74AS866	TI	SN74AS867	
SN74AS867	TI	SN74AS866	
SN74AS869	TI	SN74AS870	
SN74AS870	TI	SN74AS869	
SN74AS871	National	DM74AS873	
	TI	SN74AS873	
SN74AS873	National	DM74AS873	
	TI	SN74AS871	
SN74AS874	National	DM74AS874	
SN74AS876	National	DM74AS876	
SN74AS877	National	DM74AS878	
	TI	SN74AS878	
SN74AS878	National	DM74AS878	
	TI	SN74AS877	
SN74AS879	National	DM74AS879	
SN74AS880	National	DM74AS880	
SN74AS881A	National	DM74AS881B	
SN74AS882A	TI	SN74AS885	
SN74AS885	TI	SN74AS882A	
♦ SN74AS890	Rochester	74AS890	
♦ SN74AS897	Rochester	74AS897	
SN74AS95	Motorola	MC74BC00	
	Toshiba	**TD74BC00**	**(3836)**
♦ SN74AS95	Rochester	74AS95	
SN74BCT240	Harris	CD74FCT240	
	IDT	IDT74FCT240	
SN74BCT241	Harris	CD74FCT241	
	IDT	IDT74FCT241	
SN74BCT244	Harris	CD74FCT244	
	IDT	IDT74FCT244	
SN74BCT245	Harris	CD74FCT245	
	IDT	IDT74FCT245	
SN74BCT2827	IDT	IDT74FBT827	
SN74BCT2828	IDT	IDT74FBT2828	
SN74BCT2952	Quality Semi	QS29FCT52	
SN74BCT2953	Quality Semi	QS29FCT53	
SN74BCT29821	AMD	AM29C821A	
		AM29821	
	Harris	CD74FCT821	
	IDT	IDT74FCT821	
SN74BCT29822	Harris	CD74FCT822	
SN74BCT29823	AMD	AM29C823A	
		AM29823	
	Harris	CD74FCT823	
	IDT	IDT74FCT823	
SN74BCT29824	Harris	CD74FCT824	
	IDT	IDT74FCT824	
SN74BCT29825	IDT	IDT74FCT825	
SN74BCT29827	AMD	AM29C827A	
		AM29827	
	Harris	CD74FCT827	
	IDT	IDT74FCT827	
SN74BCT29828	AMD	AM29C828A	
	Harris	CD74FCT828	
SN74BCT29833	AMD	AM29C833A	
SN74BCT29841	AMD	AM29C841A	
	Harris	CD74FCT841	
	IDT	IDT74FCT841	
SN74BCT29842	Harris	CD74FCT842	
SN74BCT29843	AMD	AM29C843A	
	IDT	IDT74FCT843	
SN74BCT29844	Harris	CD74FCT844	
	IDT	IDT74FCT844	
SN74BCT29845	IDT	IDT74FCT845	
SN74BCT29853	AMD	AM29C853A	
SN74BCT29861	AMD	AM29C861A	
	Harris	CD74FCT861	
	IDT	IDT74FCT861	
SN74BCT29862	Harris	CD74FCT862	
SN74BCT29863	AMD	AM29C863A	
	Harris	CD74FCT863	
	IDT	IDT74FCT863	
SN74BCT29864	Harris	CD74FCT864	
	IDT	IDT74FCT864	
SN74BCT373	Harris	CD74FCT373	
	IDT	IDT74FCT373	
SN74BCT374	Harris	CD74FCT374	
	IDT	IDT74FCT374	
SN74BCT533	Harris	CD74FCT533	
SN74BCT534	Harris	CD74FCT534	
	IDT	IDT74FCT534	
SN74BCT540	Harris	CD74FCT540	
	IDT	IDT74FCT540	
SN74BCT541	Harris	CD74FCT541	
	IDT	IDT74FCT541	
SN74BCT543	Harris	CD74FCT543	
	IDT	IDT74FCT543	
SN74BCT544	Harris	CD74FCT544	
SN74BCT563	Harris	CD74FCT563	
SN74BCT564	Harris	CD74FCT564	
SN74BCT573	Harris	CD74FCT573	
SN74BCT623	Harris	CD74FCT623	
SN74BCT640	IDT	IDT74FCT640	
SN74BCT646	Harris	CD74FCT646	
	IDT	IDT74FCT646	
SN74BCT648	Harris	CD74FCT648	
SN74BCT651	Harris	CD74FCT651	
SN74BCT652	Harris	CD74FCT652	
	IDT	IDT74FCT652	
SN74BCT841	IDT	IDT74FCT841	
SN74BCT843	Harris	CD74FCT843	
SN74FCT574	Harris	CD74FCT574	
SN74F00	Mitsubishi	M74F00	
	Motorola	MC74F00	
	National	MM74C989	
		74F00	
	Philips	74F00	
SN74F02	Mitsubishi	M74F02	
	Motorola	MC74F02	
	National	74F02	
	Philips	74F02	
SN74F04	Mitsubishi	M74F04	
	Motorola	MC74F04	
	National	74F04	
	Philips	74F04	
	Rochester	74F04	
SN74F08	Mitsubishi	M74F08	
	Motorola	MC74F08	
	National	74F08	
	Philips	74F08	
SN74F09	Mitsubishi	M74F10	
	Motorola	MC74F10	
	National	74F10	
	Philips	74F10	
	TI	SN74F10	
SN74F10	Mitsubishi	M74F10	
	Motorola	MC74F10	
	National	74F10	
	Philips	74F10	
	TI	SN74F09	
SN74F109	Mitsubishi	M74F109	
	Motorola	MC74F109	
	National	74F109	
	Philips	74F109	
	Rochester	74F109	
SN74F11	Mitsubishi	M74F11	
	Motorola	MC74F11	
	National	74F11	
	Philips	74F11	
SN74F112	Mitsubishi	M74F112	
	Motorola	MC74F112	
	National	74F112	
	Philips	74F112	
SN74F113	National	74F113	
	Philips	74F113	
SN74F114	National	74F114	
	Philips	74F114	
SN74F125	Mitsubishi	M74F125	
	Motorola	MC74F125	
	National	74F125	
	Philips	74F125	
SN74F126	Motorola	MC74F126	
	Philips	74F126	
SN74F138	Mitsubishi	M74F138	
	Motorola	MC74F138	
	National	74F138	
	Philips	74F133	
		74F138	
SN74F139	Rochester	74F139	
SN74F148	Motorola	MC74F148	
	National	74F148	
	Philips	74F148	
SN74F151	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151	
		74F151A	
	Philips	N74F151	
		N74F151A	
		74F151	
	TI	SN74F151A	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74F151A	Mitsubishi	M74F151A	
	Motorola	MC74F151	
	National	74F151	
		74F151A	
	Philips	N74F151	
		N74F151A	
		74F151	
	TI	SN74F151	
SN74F153	Mitsubishi	M74F153	
	Motorola	MC74F153	
	National	74F153	
	Philips	74F153	
	Rochester	74F153	
SN74F157A	Mitsubishi	M74F157A	
	Motorola	MC74F157	
		MC74F157A	
	National	74F157	
		74F157A	
	Philips	74F154	
		74F157	
		74F157A	
SN74F158A	Mitsubishi	M74F158A	
	Motorola	MC74F158	
		MC74F158A	
	National	74F158	
		74F158A	
	Philips	N74F158A	
		74F158	
SN74F160A	Motorola	MC74F160A	
	National	74F160A	
	Philips	74F160A	
SN74F161	Rochester	74F161	
SN74F161A	Mitsubishi	M74F161A	
	Motorola	MC74F161A	
	National	74F161A	
	Philips	74F1604	
		74F161A	
SN74F162A	Motorola	MC74F162A	
	National	74F162A	
	Philips	74F162A	
SN74F163A	Mitsubishi	M74F163A	
	Motorola	MC74F163A	
	National	74F163A	
	Philips	74F163A	
SN74F164	Rochester	74F164	
SN74F166	Philips	74F166	
SN74F168	Motorola	MC74F168	
	National	74F168	
	Philips	74F168	
SN74F169	Mitsubishi	M74F169	
	Motorola	MC74F169	
	National	74F169	
	Philips	74F169	
SN74F174	Mitsubishi	M74F174	
	Motorola	MC74F174	
	National	74F174	
	Philips	74F173	
		74F174	
SN74F175	Mitsubishi	M74F175	
	Motorola	MC74F175	
	National	74F175	
	Philips	74F175	
		74F175A	
	Rochester	74F175	
SN74F190	National	74F190	
	Philips	74F190	
SN74F191	National	74F191	
	Philips	74F191	
SN74F192	National	74F192	
	Philips	74F192	
SN74F193	National	74F193	
	Philips	74F193	
SN74F20	Mitsubishi	M74F20	
	Motorola	MC74F20	
	National	74F20	
	Philips	74F20	
	Rochester	74F20	
SN74F21	Motorola	MC74F21	
		MV74F21	
SN74F240	Harris	CD74FCT240	
	Mitsubishi	M74F240	
	Motorola	MC74F240	
	National	74F240	
	Philips	74F225	
		74F240	
		74F240A	
	Rochester	74F240	
SN74F241	Harris	CD74FCT241	
	Mitsubishi	M74F241	
	Motorola	MC74F241	
	National	74F241	
	Philips	74F241	
		74F241A	
	Rochester	74F241	
SN74F242	Motorola	MC74F242	
	National	74F242	
	Philips	74F242	
SN74F243	Motorola	MC74F243	
	National	74F243	
	Philips	74F243	
	Rochester	74F243	
SN74F244	Harris	CD74FCT244	
	Mitsubishi	M74F244	
	Motorola	MC74F244	
	National	74F244	
	Philips	74F244	
		74F244B	
	Rochester	74F244	
SN74F245	Harris	CD74FCT245	
	Mitsubishi	M74F245	
	Motorola	MC74F245	
	National	74F245	
	Philips	74F245	
SN74F251	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251	
		74F251A	
	Philips	N74F251A	
		74F251	
		74F251A	
	Rochester	74F251A	
	TI	SN74F251A	
SN74F251A	Mitsubishi	M74F251A	
	Motorola	MC74F251	
	National	74F251	
		74F251A	
	Philips	N74F251A	
		74F251	
		74F251A	
	TI	SN74F251	
SN74F253	Mitsubishi	M74F253	
	Motorola	MC74F253	
	National	74F253	
	Philips	74F253	
SN74F257	Mitsubishi	M74F257A	
	Motorola	MC74F257	
		MC74F257A	
	National	74F257	
		74F257A	
	Philips	N74F257A	
		74F257	
		74F257A	
	Rochester	74F257A	
SN74F258	Mitsubishi	M74F258A	
	Motorola	MC74F258	
		MC74F258A	
	National	74F258	
		74F258A	
	Philips	N74F258A	
		74F258	
		74F258A	
SN74F260	Philips	74F260	
SN74F27	National	74F27	
	Philips	74F27	
SN74F273	Harris	CD74FCT273	
	Motorola	MC74F273	
	National	74F273	
	Philips	74F273	
		74F273A	
SN74F280A	Mitsubishi	M74F280	
	Motorola	MC74F280	
	National	74F280	
	Philips	74F280A	
		74F280B	
SN74F283	Mitsubishi	M74F283	
	Motorola	MC74F283	
	National	74F283	
	Philips	74F283	
SN74F299	Motorola	MC74F299	
	National	74F299	
	Philips	74F299	
SN74F30	Mitsubishi	M74F30	
	National	74F30	
	Philips	74F30	
SN74F32	Mitsubishi	M74F32	
	Motorola	MC74F32	
	National	74F32	
	Philips	74F32	
SN74F323	Motorola	MC74F323	
	National	74F323	
	Philips	74F323	
SN74F350	Motorola	MC74F350	
	National	74F350	
	Philips	74F350	
SN74F352	Mitsubishi	M74F352	
	Motorola	MC74F352	
	National	74F352	
	Philips	74F352	
	Rochester	74F352	
SN74F353	Mitsubishi	M74F353	
	Motorola	MC74F353	
	National	74F353	
	Philips	74F353	
SN74F36	Motorola	MC74F365	
	National	74F365	
	Philips	74F365	
SN74F37	Motorola	MC74F37	
	National	74F37	
	Philips	74F37	
SN74F373	Harris	CD74FCT373	
	Mitsubishi	M74F373	
	Motorola	MC74F373	
	National	74F373	
	Philips	74F373	
	Rochester	74F373	
SN74F374	Harris	CD74FCT374	
	Mitsubishi	M74F374	
	Motorola	MC74F374	
	National	74F374	
	Philips	74F374	
	Rochester	74F374	
SN74F377	Motorola	MC74F377	
	National	74F377	
	Philips	74F377	
		74F377A	
SN74F378	Motorola	MC74F378	
	National	74F378	
	Philips	74F378	
SN74F379	Motorola	MC74F379	
	National	74F379	
	Philips	74F379	
SN74F38	Motorola	MC74F38	
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	Philips	74F38	
SN74F381	Motorola	MC74F381	
	National	74F381	
	Philips	74F381	
SN74F382	Motorola	MC74F382	
	National	74F382	
	Philips	74F382	
SN74F398	Rochester	74F398	
SN74F40	Motorola	MC74F40	
	National	74F40	
	Philips	74F40	
SN74F455	National	74F433	
	Philips	N74F455	
SN74F51	Motorola	MC74F51	
	National	74F51	
	Philips	74F5074	
		74F51	
SN74F519	TI	SN74F520	
SN74F520	TI	SN74F519	
SN74F521	Mitsubishi	M74F521	
	Motorola	MC74F521	
	National	74F521	
	Philips	74F521	
SN74F533	Harris	CD74FCT533	
	Motorola	MC74F533	
	National	74F533	
	Philips	74F533	
SN74F534	Harris	CD74FCT534	
	Motorola	MC74F534	
	National	74F534	
	Philips	74F534	
SN74F540	Harris	CD74FCT540	
	National	74F540	
	Philips	74F540	
SN74F541	Harris	CD74FCT541	
	National	74F541	
	Philips	74F541	
SN74F543	Harris	CD74FCT543	
	Mitsubishi	M74F543	
	Motorola	MC74F543	
	National	74F543	
	Philips	74F543	
SN74F544	Harris	CD74FCT544	
	Motorola	MC74F544	
	National	74F544	
	Philips	74F544	
SN74F563	Harris	CD74FCT563	
	National	74F563	
	Philips	74F563	
SN74F564	Harris	CD74FCT564	
	National	74F564	
	Philips	74F564	
SN74F568	Motorola	MC74F568	
	National	74F568	
	Philips	74F568	
SN74F569	Motorola	MC74F569	
	National	74F569	
	Philips	74F569	
SN74F573	Harris	CD74FCT573	
	Mitsubishi	M74F573	
	National	74F573	
	Philips	74F573	
SN74F574	Harris	CD74FCT574	
	Mitsubishi	M74F574	
	Motorola	MC74F574	
	National	74F574	
	Philips	N74F574	
SN74F620	Motorola	MC74F620	
	National	74F620	
	Philips	74F620	
SN74F621	Philips	74F621	
SN74F622	Philips	74F622	
SN74F623	Harris	CD74FCT623	
	Motorola	MC74F623	
	National	74F623	
	Philips	74F623	
SN74F64	Motorola	MC74F64	
	National	74F632	
		74F64	
	Philips	74F64	
SN74F646	Harris	CD74FCT646	
	Mitsubishi	M74F646	
	Motorola	MC74F646	
	National	74F646	
	Philips	N74F646A	
		74F646	
		74F646A	
SN74F657	Motorola	MC74F657A	
		MC74F657B	
	National	74F657	
	Philips	74F657	
SN74F74	Mitsubishi	M74F74	
	Motorola	MC74F74	
	National	74F74	
	Philips	74F74	
SN74F776	Philips	74F776	
SN74F86	Mitsubishi	M74F86	
	Motorola	MC74F86	
	National	74F86	
	Philips	74F86	
SN74HCT00	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	Philips	74HCT00	
	Rochester	74HCT00	
	Toshiba	**TC74HCT00A**	**(3836)**
SN74HCT02	GoldStar	GD74HCT01	
		GD74HCT02	
	Harris	CD74HCT02	
	Philips	74HCT02	
	Toshiba	**TC74HCT02A**	**(3836)**
SN74HCT04	Rochester	74HCT04	
SN74HCT05	Rochester	74HCT05	
SN74HCT08	GoldStar	GD74HCT08	
	Harris	CD74HCT08	
	Motorola	MC74HCT08A	
	National	MM74HCT08	
	Philips	74HCT08	
	Toshiba	**TC74HCT08A**	**(3836)**
SN74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	Toshiba	TC74HCT137	
		TC74HCT137A	
SN74HCT138	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	Rochester	74HCT138	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
SN74HCT138			(Cont'd)
	SGS-Thomson	M74HCT138	
	Toshiba	**TC74HCT138A**	(3836)
SN74HCT139	GEC Plessey	MV74HCT139	
		74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	Philips	74HCT139	
	Toshiba	**TC74HCT139A**	(3836)
SN74HCT189	Cypress	CY7C189	
SN74HCT191	Rochester	74HCT191	
SN74HCT237	GEC Plessey	MV74HCT237	
		74HCT237	
	Harris	CD74HCT22106	
		CD74HCT237	
	Philips	74HCT237	
SN74HCT238	GEC Plessey	MV74HCT238	
		74HCT238	
	Harris	CD74HCT238	
	Philips	74HCT238	
SN74HCT240	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	Rochester	74HCT240	
	SGS-Thomson	M74HCT240	
	Toshiba	TC74HCT240A	
SN74HCT241	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	Rochester	74HCT241	
	SGS-Thomson	M74HCT241	
	Toshiba	**TC74HCT241A**	(3835)
SN74HCT242	Harris	CD74HCT242	
	Philips	74HCT242	
SN74HCT243	Harris	CD74HCT243	
	Philips	74HCT243	
SN74HCT244	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	Toshiba	**TC74HCT244A**	(3836)
SN74HCT245	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	Toshiba	**TC74HCT245A**	(3836)
SN74HCT273	Rochester	74HCT273	
SN74HCT32	GoldStar	GD74HCT32	
	Harris	CD74HCT32	
	Motorola	MC74HCT32A	
	National	MM74HCT32	
	Philips	74HCT32	
	Toshiba	**TC74HCT32A**	(3836)
SN74HCT34	Rochester	74HCT34	
			(Continued)
SN74HCT373	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	Toshiba	**TC74HCT373A**	(3836)
SN74HCT374	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	Toshiba	**TC74HCT374A**	(3836)
SN74HCT533	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	Rochester	74HCT533	
	SGS-Thomson	M74HCT533	
	Toshiba	**TC74HCT533A**	(3836)
SN74HCT534	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	Toshiba	**TC74HCT534A**	(3836)
SN74HCT540	GEC Plessey	MV74HCT540	
		74HCT540	
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	Toshiba	**TC74HCT540A**	(3836)
SN74HCT541	GEC Plessey	MV74HCT541	
		74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	Toshiba	**TC74HCT541A**	(3836)
SN74HCT563	GEC Plessey	MV74HCT563	
		74HCT563	
	Harris	CD74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
	Toshiba	**TC74HCT563A**	(3836)
SN74HCT564	GEC Plessey	MV74HCT564	
		74HCT564	
	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	Toshiba	**TC74HCT564A**	(3836)
SN74HCT573	GEC Plessey	MV74HCT573	
		74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
			(Continued)
SN74HCT573			(Cont'd)
	SGS-Thomson	M74HCT573	
	Toshiba	TC74HCT573A	
SN74HCT574	GEC Plessey	MV74HCT574	
		74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	Toshiba	**TC74HCT574A**	(3836)
SN74HCT620	Rochester	74HCT620	
SN74HCT640	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	Rochester	74HCT640	
	SGS-Thomson	M74HCT640	
	Toshiba	**TC74HCT640A**	(3836)
	Universal	US74HCT640	
SN74HCT643	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	Philips	74HCT643	
	Rochester	74HCT643	
	SGS-Thomson	M74HCT643	
	Toshiba	TC74HCT643A	
SN74HCT645	Mitsubishi	M74HCT645-1	
SN74HCT646	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	Toshiba	TC74HCT646A	
SN74HCT648	GoldStar	GD74HCT648	
	Harris	CD74HCT648	
	Philips	74HCT648	
	SGS-Thomson	M74HCT648	
	Toshiba	**TC74HCT648A**	(3836)
SN74HCT651	Harris	CD74HCT651	
	SGS-Thomson	M74HCT651	
	Toshiba	**TC74HCT651A**	(3836)
SN74HCT652	Harris	CD74HCT652	
	SGS-Thomson	M74HCT652	
	Toshiba	**TC74HCT652A**	(3836)
SN74HCT74	GoldStar	GD74HCT74	
	Harris	CD74HCT74	
	Motorola	MC74HCT74A	
	National	MM74HCT74	
	Philips	74HCT74	
	Rochester	74HCT74	
	SGS-Thomson	M74HCT74	
	Toshiba	**TC74HCT74A**	(3836)
SN74HCT9510	Waferscale	WS59510	
SN74HC00	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	Toshiba	**TC74HC00A**	(3836)
SN74HC01	GoldStar	GD74HC01	
SN74HC02	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	Toshiba	**TC74HC02A**	(3836)
SN74HC03	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
			(Continued)
SN74HC03			(Cont'd)
	SGS-Thomson	M74HC03	
	Toshiba	**TC74HC03A**	(3836)
SN74HC04	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	Rochester	74HC04	
	SGS-Thomson	M74HC04	
	Toshiba	**TC74HC04A**	(3836)
SN74HC05	GoldStar	GD74HC05	
	National	MM74HC05	
	Toshiba	**TC74HC05A**	(3836)
SN74HC08	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	Toshiba	**TC74HC08A**	(3836)
SN74HC09	GoldStar	GD74HC09	
	Mitsubishi	M74HC09	
	Toshiba	**TC74HC09A**	(3836)
SN74HC10	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	Toshiba	**TC74HC10A**	(3836)
SN74HC107	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	Rochester	74HC107	
	SGS-Thomson	M74HC107	
	Toshiba	**TC74HC107A**	(3836)
SN74HC109	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	Toshiba	**TC74HC109A**	(3836)
SN74HC11	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	Rochester	74HC11	
	SGS-Thomson	M74HC11	
	Toshiba	**TC74HC11A**	(3836)
SN74HC112	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	Toshiba	**TC74HC112A**	(3836)
SN74HC113	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	National	MM74HC113	
	Rochester	74HC113	
	SGS-Thomson	M74HC113	
	Toshiba	**TC74HC113A**	(3836)
SN74HC114	Mitsubishi	M74HC114	
	Rochester	74HC114	
♦SN74HC114	Rochester	74HC114	
SN74HC125	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	Rochester	74HC125	
	SGS-Thomson	M74HC125	
	Toshiba	**TC74HC125A**	(3836)
SN74HC126	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments			**(Cont'd)**
SN74HC126			(Cont'd)
	Rochester	74HC126	
	SGS-Thomson	M74HC126	
	Toshiba	**TC74HC126A**	**(3836)**
SN74HC132	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
		TC74HC132A	**(3836)**
SN74HC133	Motorola	MC74HC133	
	National	MM74HC133	
	Rochester	74HC133	
	SGS-Thomson	M74HC133	
	Toshiba	**TC74HC133A**	**(3836)**
SN74HC137	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	Toshiba	**TC74HC137A**	**(3836)**
SN74HC138	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	Toshiba	**TC74HC138A**	**(3836)**
SN74HC139	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	Rochester	74HC139	
	SGS-Thomson	M74HC139	
	Toshiba	**TC74HC139A**	**(3836)**
SN74HC14	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	Toshiba	**TC74HC14A**	**(3836)**
SN74HC147	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
	SGS-Thomson	M74HC147	
	Toshiba	**TC74HC147A**	**(3836)**
SN74HC148	GoldStar	GD74HC148	
	National	MM74HC148	
	SGS-Thomson	M74HC148	
	Toshiba	**TC74HC148A**	**(3836)**
SN74HC151	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	Toshiba	**TC74HC151A**	**(3836)**
SN74HC152	Rochester	74HC152	
♦ SN74HC152	Rochester	74HC152	
SN74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
			(Continued)
SN74HC153			(Cont'd)
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	Rochester	74HC153	
	SGS-Thomson	M74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
	Universal	US74HC153	
SN74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
	Universal	US74HC154	
SN74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
	Universal	US74HC157	
SN74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
	Universal	US74HC158	
SN74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
	Universal	US74HC160	
SN74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
	Universal	US74HC161	
SN74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
	Universal	US74HC162	
SN74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
	Universal	US74HC163	
SN74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
	Universal	US74HC164	
SN74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
			(Continued)
SN74HC165			(Cont'd)
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
	Universal	US74HC165	
SN74HC166	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	Toshiba	**TC74HC166A**	**(3836)**
SN74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	Rochester	74HC173	
	SGS-Thomson	M74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
	Universal	US74HC173	
SN74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	Rochester	74HC174	
	SGS-Thomson	M74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
	Universal	US74HC174	
SN74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	Rochester	74HC175	
	SGS-Thomson	M74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
	Universal	US74HC175	
SN74HC180	Rochester	74HC180	
♦ SN74HC180	Rochester	74HC180	
SN74HC181	Rochester	74HC181	
SN74HC189	Cypress	CY7C189	
SN74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
	Universal	US74HC190	
SN74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
	Universal	US74HC191	
SN74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	Rochester	74HC192	
	SGS-Thomson	M74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
	Universal	US74HC192	
SN74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	Rochester	74HC193	
	SGS-Thomson	M74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
	Universal	US74HC193	
			(Continued)
SN74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	Rochester	74HC194	
	SGS-Thomson	M74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
	Universal	US74HC194	
SN74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
	Universal	US74HC195	
SN74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
	Universal	US74HC20	
SN74HC21	GoldStar	GD74HC21	
	Harris	CD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
	Toshiba	**TC74HC21A**	**(3836)**
	Universal	US74HC21	
SN74HC219	Cypress	CY7C190	
SN74HC237	Harris	CD74HC22106	
		CD74HC237	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	Rochester	74HC237	
	SGS-Thomson	M74HC237	
	Toshiba	**TC74HC237A**	**(3836)**
SN74HC238	Harris	CD74HC238	
	National	MM74HC238	
	Philips	74HC238	
	SGS-Thomson	M74HC238	
	Toshiba	**TC74HC238A**	**(3836)**
SN74HC240	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	Rochester	74HC240	
	SGS-Thomson	M74HC240	
	Toshiba	**TC74HC240A**	**(3836)**
SN74HC241	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
	Philips	74HC241	
	Rochester	74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
	Toshiba	**TC74HC241A**	**(3836)**
SN74HC242	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	Rochester	74HC242	
	SGS-Thomson	M74HC242	
	Toshiba	**TC74HC242A**	**(3836)**
SN74HC243	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	National	MM74HC243	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74HC243			(Cont'd)
	Philips	74HC243	
	Rochester	74HC243	
	SGS-Thomson	M74HC243	
	Toshiba	**TC74HC243A**	(3836)
SN74HC244	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	Toshiba	**TC74HC244A**	(3836)
SN74HC245	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	Toshiba	**TC74HC245A**	(3836)
SN74HC251	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	Rochester	74HC251	
	SGS-Thomson	M74HC251	
	Toshiba	**TC74HC251A**	(3836)
SN74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	Rochester	74HC253	
	SGS-Thomson	M74HC253	
	Toshiba	**TC74HC253A**	(3836)
SN74HC257	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	Rochester	74HC257	
	SGS-Thomson	M74HC257	
	Toshiba	**TC74HC257A**	(3836)
SN74HC258	Harris	CD74HC258	
	National	MM74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	Toshiba	**TC74HC258A**	(3836)
SN74HC259	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	Toshiba	**TC74HC259A**	(3836)
SN74HC266	Mitsubishi	M74HC266	
		M74HC266A	
	National	MM74HC266	
	Rochester	74HC266	
	SGS-Thomson	M74HC266	
	Toshiba	**TC74HC266A**	(3836)
SN74HC27	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
			(Continued)
SN74HC27			(Cont'd)
	SGS-Thomson	M74HC27	
	Toshiba	**TC74HC27A**	(3836)
SN74HC273	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	Toshiba	**TC74HC273A**	(3836)
SN74HC280	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	Toshiba	**TC74HC280A**	(3836)
SN74HC283	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	Toshiba	**TC74HC283A**	(3836)
SN74HC298	Motorola	MC74HC298	
	National	MM74HC298	
	SGS-Thomson	M74HC298	
	Toshiba	**TC74HC298A**	(3836)
SN74HC299	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	Toshiba	**TC74HC299A**	(3836)
SN74HC30	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	Toshiba	**TC74HC30A**	(3836)
SN74HC32	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	Toshiba	**TC74HC32A**	(3836)
SN74HC352	SGS-Thomson	M74HC352	
	Toshiba	**TC74HC352A**	(3836)
SN74HC353	SGS-Thomson	M74HC353	
	Toshiba	**TC74HC353A**	(3836)
SN74HC354	Harris	CD74HC354	
	Motorola	MC74HC354	
	National	MM74HC354	
	Philips	74HC354	
	Rochester	74HC354	
	SGS-Thomson	M74HC354	
	Toshiba	**TC74HC354A**	(3836)
SN74HC356	Harris	CD74HC356	
	National	MM74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	
	Toshiba	**TC74HC356A**	(3836)
SN74HC365	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
			(Continued)
SN74HC365			(Cont'd)
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	Toshiba	**TC74HC365A**	(3836)
SN74HC366	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
	Rochester	74HC366	
	SGS-Thomson	M74HC366	
	Toshiba	**TC74HC366A**	(3836)
SN74HC367	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	Toshiba	**TC74HC367A**	(3836)
SN74HC368	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	Rochester	74HC368	
	SGS-Thomson	M74HC368	
	Toshiba	**TC74HC368A**	(3836)
SN74HC373	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	Toshiba	**TC74HC373A**	(3836)
SN74HC374	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	Toshiba	**TC74HC374A**	(3836)
SN74HC375	SGS-Thomson	M74HC375	
	Toshiba	**TC74HC375A**	(3836)
SN74HC377	Harris	CD74HC377	
	Philips	74HC377	
	SGS-Thomson	M74HC377	
	Toshiba	**TC74HC377A**	(3836)
SN74HC386	SGS-Thomson	M74HC386	
	Toshiba	**TC74HC386A**	(3836)
SN74HC390	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	Rochester	74HC390	
	SGS-Thomson	M74HC390	
	Toshiba	**TC74HC390A**	(3836)
SN74HC393	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	Rochester	74HC393	
	SGS-Thomson	M74HC393	
	Toshiba	**TC74HC393A**	(3836)
SN74HC4002	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	
			(Continued)
SN74HC4002			(Cont'd)
	SGS-Thomson	M74HC4002	
	Toshiba	**TC74HC4002A**	(3836)
SN74HC4017	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	Toshiba	**TC74HC4017A**	(3836)
SN74HC4020	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	Toshiba	TC74HC4020A	
SN74HC4022	SGS-Thomson	M74HC4022	
	Toshiba	**TC74HC4022A**	(3836)
SN74HC4024	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	Toshiba	**TC74HC4024A**	(3836)
SN74HC4040	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	Toshiba	**TC74HC4040A**	(3836)
SN74HC4060	Harris	CD74HC4060	
	Motorola	MC74HC4060	
	National	MM74HC4060	
	Philips	74HC4060	
	SGS-Thomson	M74HC4060	
	Toshiba	**TC74HC4060A**	(3836)
SN74HC4061	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4066	
	Toshiba	**TC74HC4066A**	(3836)
SN74HC4066	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
	Toshiba	**TC74HC4066A**	(3836)
SN74HC4075	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	SGS-Thomson	M74HC4075	
	Toshiba	**TC74HC4075A**	(3836)
SN74HC4078A			
	Mitsubishi	M74HC4078	
	Motorola	MC74HC4078	
	National	MM74HC4078	
	SGS-Thomson	M74HC4078	
	Toshiba	**TC74HC4078A**	(3836)
SN74HC42	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	
	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	Toshiba	**TC74HC42A**	(3836)
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74HC4514	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	Toshiba	**TC74HC4514A**	**(3836)**
SN74HC4515	Harris	CD74HC4515	
	Philips	74HC4515	
	Toshiba	**TC74HC4515A**	**(3836)**
SN74HC51	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	
	Motorola	MC74HC51	
	National	MM74HC51	
	Rochester	74HC51	
	SGS-Thomson	M74HC51	
	Toshiba	**TC74HC51A**	**(3836)**
SN74HC533	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533	
		M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521	
		MM74HC533	
	Philips	74HC533	
	Rochester	74HC533	
	SGS-Thomson	M74HC533	
	Toshiba	**TC74HC533A**	**(3836)**
SN74HC534	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534	
		M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	Rochester	74HC534	
	SGS-Thomson	M74HC534	
	Toshiba	**TC74HC534A**	**(3836)**
SN74HC540	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	Toshiba	TC74HC5353A	
		TC74HC540A	**(3836)**
SN74HC541	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	Toshiba	**TC74HC541A**	**(3836)**
SN74HC563	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555	
		74HC563	
	Rochester	74HC563	
	SGS-Thomson	M74HC563	
	Toshiba	**TC74HC563A**	**(3836)**
SN74HC564	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	Toshiba	**TC74HC564A**	**(3836)**
SN74HC573	Harris	CD74HC573	
	Motorola	MC74HC573A	
	National	MM74HC573	
	Philips	74HC573	
	SGS-Thomson	M74HC573	
	Toshiba	**TC74HC573A**	**(3836)**
SN74HC574	Harris	CD74HC574	
	Motorola	MC74HC574A	
			(Continued)
SN74HC574			(Cont'd)
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	Toshiba	**TC74HC574A**	**(3836)**
SN74HC58	Rochester	74HC58	
SN74HC590A	National	MM74HC590	
	SGS-Thomson	M74HC590	
	Toshiba	**TC74HC590A**	**(3836)**
SN74HC594	National	MM74HC594	
SN74HC595	Mitsubishi	M74HC595	
	Motorola	MC74HC595A	
	National	MM74HC595	
	SGS-Thomson	M74HC595	
	Toshiba	**TC74HC595A**	**(3836)**
SN74HC597	Rochester	74HC597	
SN74HC604	Mitsubishi	M74HC604	
	Rochester	74HC604	
♦ SN74HC604	Rochester	74HC604	
SN74HC620	National	MM74HC620	
	Rochester	74HC620	
	SGS-Thomson	M74HC620	
	Toshiba	**TC74HC620A**	**(3836)**
SN74HC623	National	MM74HC623	
	SGS-Thomson	M74HC623	
	Toshiba	**TC74HC623A**	**(3836)**
SN74HC640	Harris	CD74HC640	
	Mitsubishi	M74HC640	
		M74HC640-1	
	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	Rochester	74HC640	
	SGS-Thomson	M74HC640	
	Toshiba	**TC74HC640A**	**(3836)**
SN74HC643	Harris	CD74HC643	
	Mitsubishi	M74HC643	
		M74HC643-1	
	National	MM74HC643	
	Philips	74HC643	
	Rochester	74HC643	
	SGS-Thomson	M74HC643	
	Toshiba	TC74HC643A	
SN74HC645	Mitsubishi	M74HC645	
		M74HC645-1	
SN74HC646	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	Rochester	74HC646	
	SGS-Thomson	M74HC646	
	Toshiba	**TC74HC646A**	**(3836)**
SN74HC648	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	Toshiba	**TC74HC648A**	**(3836)**
SN74HC651	Harris	CD74HC651	
	SGS-Thomson	M74HC651	
	Toshiba	**TC74HC651A**	**(3836)**
SN74HC652	Harris	CD74HC652	
	SGS-Thomson	M74HC652	
	Toshiba	**TC74HC652A**	**(3836)**
SN74HC677	Rochester	74HC677	
SN74HC688	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
			(Continued)
SN74HC688			(Cont'd)
	SGS-Thomson	M74HC688	
	Toshiba	**TC74HC688A**	**(3836)**
SN74HC7006	SGS-Thomson	M74HC7007	
SN74HC7008	TI	SN74HC7022	
SN74HC7022	Rochester	74HC7022	
	TI	SN74HC7008	
SN74HC7074	TI	SN74HC7075	
SN74HC7075	TI	SN74HC7074	
SN74HC7266	Harris	CD74HC7266	
	Motorola	MC74HC7266	
	National	MM74HC7266	
	Philips	74HC7266	
	SGS-Thomson	M74HC7266	
	Toshiba	**TC74HC7266A**	**(3836)**
SN74HC73	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	Philips	74HC73	
	Rochester	74HC73	
	SGS-Thomson	M74HC73	
	Toshiba	**TC74HC73A**	**(3836)**
SN74HC74	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	Rochester	74HC74	
	SGS-Thomson	M74HC74	
	Toshiba	**TC74HC74A**	**(3836)**
SN74HC75	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	Rochester	74HC75	
	SGS-Thomson	M74HC75	
	Toshiba	**TC74HC75A**	**(3836)**
SN74HC76	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	National	MM74HC76	
	Rochester	74HC76	
	SGS-Thomson	M74HC76	
	Toshiba	**TC74HC76A**	**(3836)**
SN74HC77	Rochester	74HC77	
	SGS-Thomson	M74HC77	
	Toshiba	**TC74HC77A**	**(3836)**
SN74HC78	Rochester	74HC78	
SN74HC804	Rochester	74HC804	
	TI	SN74HC805	
SN74HC805	TI	SN74HC804	
SN74HC832	Mitsubishi	M74HC841-1	
SN74HC85	Harris	CD74HC85	
	Mitsubishi	M74HC842-1	
		M74HC85	
	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	Rochester	74HC85	
	SGS-Thomson	M74HC85	
	Toshiba	**TC74HC85A**	**(3836)**
SN74HC86	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	
	Rochester	74HC86	
	SGS-Thomson	M74HC86	
	Toshiba	**TC74HC86A**	**(3836)**
♦ SN74H00	**Lansdale**	**ML74H00**	**(3669)**
		SL74H00	
♦ SN74H00	Rochester	74H00	
♦ SN74H01	**Lansdale**	**ML74H01**	**(3669)**
		SL74H01	
♦ SN74H01	Rochester	74H01	
♦ SN74H04	**Lansdale**	**ML74H04**	**(3669)**
	Rochester	74H04	
♦ SN74H05	**Lansdale**	**ML74H05**	**(3669)**
	Rochester	74H05	
			(Continued)
♦ SN74H08	**Lansdale**	**ML74H08**	**(3669)**
		SL74H08	
♦ SN74H08	Rochester	74H08	
♦ SN74H10	**Lansdale**	**ML74H10**	**(3669)**
		SL74H10	
♦ SN74H101	**Lansdale**	**ML74H101**	**(3669)**
		SL74H101	
♦ SN74H101	Rochester	74H101	
♦ SN74H102	Lansdale	ML74H102	
		SL74H102	
♦ SN74H102	Rochester	74H102	
♦ SN74H103	**Lansdale**	**ML74H103**	**(3669)**
		SL74H103	
♦ SN74H103	Rochester	74H103	
♦ SN74H106	Lansdale	SL74H106	
	Rochester	74H106	
♦ SN74H108	**Lansdale**	**ML74H108**	**(3669)**
		SL74H108	
♦ SN74H108	Rochester	74H108	
♦ SN74H11	**Lansdale**	**ML54H11**	**(3669)**
		ML74H11	**(3669)**
		SL54H11	
		SL74H11	
♦ SN74H11	Rochester	RC3006	
		74H11	
♦ SN74H183	Rochester	74H183	
SN74H198	Rochester	74H198	
♦ SN74H20	**Lansdale**	**ML74H20**	**(3669)**
		SL74H20	
♦ SN74H20	Rochester	74H20	
♦ SN74H21	**Lansdale**	**ML54H21**	**(3669)**
		ML74H21	**(3669)**
		SL54H21	
		SL74H21	
♦ SN74H21	Rochester	74H21	
♦ SN74H22	**Lansdale**	**ML74H22**	**(3669)**
		SL74H22	
♦ SN74H22	Rochester	74H22	
♦ SN74H30	**Lansdale**	**ML74H30**	**(3669)**
		SL74H30	
♦ SN74H30	Rochester	74H30	
♦ SN74H40	**Lansdale**	**ML74H40**	**(3669)**
		SL74H40	
♦ SN74H40	Rochester	74H40	
♦ SN74H50	**Lansdale**	**ML74H50**	**(3669)**
	Rochester	74H50	
♦ SN74H51	**Lansdale**	**ML74H51**	**(3669)**
	Rochester	74H51	
♦ SN74H52	**Lansdale**	**ML74H52**	**(3669)**
		SL74H52	
♦ SN74H52	Rochester	74H52	
♦ SN74H53	**Lansdale**	**ML74H53**	**(3669)**
		SL74H53	
♦ SN74H53	Rochester	74H53	
♦ SN74H54	**Lansdale**	**ML74H54**	**(3669)**
		SL74H54	
♦ SN74H54	Rochester	74H54	
♦ SN74H55	**Lansdale**	**ML74H55**	**(3669)**
		SL74H55	
♦ SN74H55	Rochester	74H55	
♦ SN74H60	Lansdale	ML74H60	
		SL74H60	
♦ SN74H60	Rochester	74H60	
♦ SN74H61	**Lansdale**	**ML74H61**	**(3669)**
		SL74H61	
♦ SN74H61	Rochester	RC3019	
		74H61	
♦ SN74H62	**Lansdale**	**ML74H62**	**(3669)**
		SL74H62	
♦ SN74H62	Rochester	74H62	
♦ SN74H71	Lansdale	ML74H71	
		SL74H71	
♦ SN74H71	Rochester	RC3016	
		RC3054	
		74H71	
♦ SN74H72	**Lansdale**	**ML74H72**	**(3669)**
		SL74H72	
♦ SN74H72	Rochester	RC3055	
		RC3155	
		74H72	
♦ SN74H73	**Lansdale**	**ML54H73**	**(3669)**
		ML74H73	**(3669)**
		SL54H73	
		SL74H73	
♦ SN74H73	Rochester	RC3063	
		74H73	
♦ SN74H74	**Lansdale**	**ML74H74**	**(3669)**
		SL74H74	
♦ SN74H74	Rochester	74H74	
♦ SN74H76	Lansdale	SL74H76	
	Rochester	74H76	
♦ SN74H78	Rochester	74H78	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN74H87	**Lansdale**	**ML74H87**	(3669)
	Rochester	74H87	
SN74LS00	GoldStar	GD74LS00	
	Lansdale	**SL74LS00**	(3674)
	Motorola	SN74LS00	
	National	DM74LS00	
		74LS00	
	Philips	74LV86	
	Rochester	74LS00	
	SGS-Thomson	T74LS00	
		74LS00	
SN74LS01	**Lansdale**	**SL74LS01**	(3674)
	Motorola	SN74LS01	
	SGS-Thomson	T74LS01	
		74LS01	
SN74LS02	GoldStar	GD74LS02	
	Lansdale	**SL74LS02**	(3674)
	Motorola	SN74LS02	
	National	DM74LS02	
		74LS02	
	SGS-Thomson	T74LS02	
		74LS02	
SN74LS03	Motorola	SN74LS03	
	National	DM74LS03	
		74LS03	
	Rochester	74LS03	
	SGS-Thomson	T74LS03A	
		74LS03	
SN74LS04	GoldStar	GD74LS04	
	Lansdale	**SL74LS04**	(3674)
	Motorola	SN74LS04	
	National	DM74LS04	
		74LS04	
	Rochester	74LS04	
	SGS-Thomson	T74LS04	
		74LS04	
SN74LS05	GoldStar	GD74LS05	
	Lansdale	**SL74LS05**	(3674)
	Motorola	SN74LS05	
	National	DM74LS05	
		74LS05	
	Rochester	74LS05	
	SGS-Thomson	T74LS05	
		74LS05	
SN74LS08	GoldStar	GD74LS08	
	Lansdale	**SL74LS08**	(3674)
	Motorola	SN74LS08	
	National	DM74LS08	
		74LS08	
	Rochester	74LS08	
	SGS-Thomson	T74LS08	
		74LS08	
SN74LS09	GoldStar	GD74LS09	
	Lansdale	**SL74LS09**	(3674)
	Motorola	SN74LS09	
	National	DM74LS09	
		74LS09	
	Rochester	74LS09	
	SGS-Thomson	T74LS09	
		74LS09	
SN74LS10	GoldStar	GD74LS10	
	Lansdale	**SL74LS10**	(3674)
	Motorola	SN74LS10	
	National	DM74LS10	
		74LS10	
	Rochester	74LS10	
	SGS-Thomson	T74LS10	
		74LS10	
SN74LS107A	GoldStar	GD74LS107A	
	Lansdale	**SL74LS107**	(3674)
	Motorola	SN74LS107A	
	National	DM74LS107A	
SN74LS109A	GoldStar	GD74LS109A	
	Lansdale	**SL74LS109**	(3674)
	Motorola	SN74LS109A	
	National	DM74LS109	
		74LS109	
	SGS-Thomson	T74LS109A	
SN74LS11	GoldStar	GD74LS11	
	Lansdale	**SL74LS11**	(3674)
	Motorola	SN74LS11	
			(Continued)
SN74LS11			(Cont'd)
	National	DM74LS11	
		74LS11	
	Rochester	74LS11	
	SGS-Thomson	T74LS11	
		74LS11	
SN74LS112	Rochester	74LS112	
SN74LS112A	GoldStar	GD74LS112	
	Lansdale	**SL74LS112**	(3674)
	Motorola	SN74LS112A	
	National	DM74LS112	
		74LS112	
	SGS-Thomson	T74LS112A	
♦ SN74LS113	Rochester	74LS113	
SN74LS113A	**Lansdale**	**SL74LS113**	(3674)
	Motorola	SN74LS113A	
	Rochester	74LS113	
	SGS-Thomson	T74LS113A	
SN74LS114A	Motorola	SN74LS114A	
	Rochester	74LS114	
	SGS-Thomson	T74LS114A	
SN74LS12	Motorola	SN74LS12	
	National	DM74LS12	
		74LS12	
	Rochester	74LS12	
	SGS-Thomson	T74LS12	
		74LS12	
SN74LS122	Motorola	SN74LS122	
	National	DM74LS122	
SN74LS123	GoldStar	GD74LS123	
	Motorola	SN74LS123	
	National	DM74LS123	
SN74LS125A	GoldStar	GD74LS125	
		GD74LS125A	
	Lansdale	**SL74LS125**	(3674)
		SL74LS125A	(3674)
	Motorola	SN74LS125A	
	National	DM74LS125A	
		74LS125	
	SGS-Thomson	T74LS125A	
		74LS125A	
SN74LS126A	**Lansdale**	**SL74LS126A**	(3674)
	Motorola	SN74LS126A	
	National	DM74LS126	
		74LS126	
	SGS-Thomson	T74LS126A	
		74LS126	
SN74LS13	**Lansdale**	**SL74LS13**	(3674)
	Motorola	SN74LS13	
	National	74LS13	
	SGS-Thomson	T74LS13	
		74LS13	
SN74LS132	GoldStar	GD74LS132	
	Lansdale	**SL74LS132**	(3674)
	Motorola	SN74LS132	
	National	DM74LS132	
		74LS132	
	Rochester	74LS132	
	SGS-Thomson	T74LS132	
		74LS132	
SN74LS136	**Lansdale**	**SL74LS136**	(3674)
	Motorola	SN74LS136	
	National	74LS136	
	SGS-Thomson	T74LS136	
		74LS136	
SN74LS137	Motorola	SN74LS137	
SN74LS138	GoldStar	GD74LS138	
	Lansdale	**SL74LS138**	(3674)
	Motorola	SN74LS138	
	National	DM74LS138	
		74LS138	
	Rochester	74LS138	
	SGS-Thomson	T74LS138	
		74LS138	
SN74LS139A	GoldStar	GD74LS139	
	Lansdale	**SL74LS139**	(3674)
	Motorola	SN74LS139	
	National	DM74LS139	
		74LS139	
			(Continued)
SN74LS139A			(Cont'd)
	SGS-Thomson	T74LS139	
		74LS139	
SN74LS14	GoldStar	GD74LS14	
	Lansdale	**SL74LS14**	(3674)
	Motorola	SN74LS14	
	National	DM74LS14	
		74LS14	
	SGS-Thomson	T74LS14	
		74LS14	
SN74LS145	GoldStar	GD74LS145	
	Motorola	SN74LS145	
SN74LS147	Motorola	SN74LS147	
SN74LS148	GoldStar	GD74LS148	
	Motorola	SN74LS148	
	SGS-Thomson	T74LS148	
SN74LS15	GoldStar	GD74LS15	
	Motorola	SN74LS15	
	National	74LS15	
	SGS-Thomson	T74LS15	
		74LS15	
SN74LS151	GoldStar	GD74LS151	
	Lansdale	**SL74LS151**	(3674)
	Motorola	SN74LS151	
	National	DM74LS151	
		74LS151	
	SGS-Thomson	T74LS151	
		74LS151	
SN74LS153	GoldStar	GD74LS153	
	Lansdale	**SL74LS153**	(3674)
	Motorola	SN74LS153	
	National	DM74LS153	
		74LS153	
	Rochester	74LS153	
	SGS-Thomson	T74LS153	
		74LS153	
SN74LS155A	GoldStar	GD74LS155	
	Lansdale	**SL74LS155**	(3674)
	Motorola	SN74LS155	
	National	DM74LS155	
		74LS155	
	SGS-Thomson	T74LS155	
		74LS155	
SN74LS156	**Lansdale**	**SL74LS156**	(3674)
	Motorola	SN74LS156	
	National	DM74LS156	
		74LS156	
	SGS-Thomson	T74LS156	
		74LS156	
SN74LS157	GoldStar	GD74LS157	
	Lansdale	**SL74LS157**	(3674)
	Motorola	SN74LS157	
	National	DM74LS157	
		74LS157	
	SGS-Thomson	T74LS157	
		74LS157	
SN74LS158	GoldStar	GD74LS158	
	Lansdale	**SL74LS158**	(3674)
	Motorola	SN74LS158	
	National	DM74LS158	
		74LS158	
	Rochester	74LS158	
	SGS-Thomson	T74LS158	
		74LS158	
SN74LS160A	**Lansdale**	**SL74LS160A**	(3674)
	Motorola	SN74LS160A	
	National	74LS160	
	SGS-Thomson	T74LS160A	
SN74LS161A	GoldStar	GD74LS161A	
	Lansdale	**SL74LS161A**	(3674)
	Motorola	SN74LS161A	
	National	DM74LS161A	
		74LS161	
	SGS-Thomson	T74LS161A	
SN74LS162A	**Lansdale**	**SL74LS162A**	(3674)
	Motorola	SN74LS162A	
	National	74LS162	
	SGS-Thomson	T74LS162A	
			(Continued)
SN74LS163A	GoldStar	GD74LS163A	
	Lansdale	**SL74LS163A**	(3674)
	Motorola	SN74LS163A	
	National	DM74LS163A	
		74LS163	
	SGS-Thomson	T74LS163A	
SN74LS164	GoldStar	GD74LS164	
	Lansdale	**SL74LS164**	(3674)
	Motorola	SN74LS164	
	National	DM74LS164	
		74LS164	
	Rochester	74LS164	
	SGS-Thomson	T74LS164	
		74LS164	
SN74LS165A	GoldStar	GD74LS165	
	Motorola	SN74LS165	
	National	74LS165	
SN74LS166A	GoldStar	GD74LS166	
	Motorola	SN74LS166	
	National	DM74LS166	
	SGS-Thomson	T74LS166	
		74LS166	
SN74LS169B	**Lansdale**	**SL74LS169A**	(3674)
	Motorola	SN74LS169	
	National	DM74LS169A	
		74LS169	
	Rochester	74LS169	
	SGS-Thomson	T74LS169	
		74LS169	
SN74LS170	Lansdale	SL74LS170	
	Motorola	SN74LS170	
	National	74LS170	
	SGS-Thomson	T74LS170	
		74LS170	
♦ SN74LS171	Rochester	74LS171	
SN74LS173A	**Lansdale**	**SL74LS173**	(3674)
	Motorola	SN74LS173A	
	National	74LS173A	
SN74LS174	GoldStar	GD74LS174	
	Lansdale	**SL74LS174**	(3674)
	Motorola	SN74LS174	
	National	DM74LS174	
		74LS174	
	Rochester	74LS174	
	SGS-Thomson	T74LS174	
		74LS174	
SN74LS175	GoldStar	GD74LS175	
	Lansdale	**SL74LS175**	(3674)
	Motorola	SN74LS175	
	National	DM74LS175	
		74LS175	
	Rochester	74LS175	
	SGS-Thomson	T74LS175	
		74LS175	
SN74LS181	Lansdale	SL74LS181	
	Motorola	SN74LS181	
	National	74LS181	
	SGS-Thomson	T74LS181	
		74LS181	
SN74LS189A	Cypress	CY27LS03	
SN74LS19	Rochester	74LS19	
♦ SN74LS19	Rochester	74LS19	
SN74LS190	Motorola	SN74LS190	
	National	DM74LS190	
		74LS190	
	SGS-Thomson	T74LS190	
		74LS190	
SN74LS191	GoldStar	GD74LS191	
	Lansdale	**SL74LS191**	(3674)
	Motorola	SN74LS191	
	National	DM74LS191	
		74LS191	
	SGS-Thomson	T74LS191	
		74LS191	
SN74LS192	**Lansdale**	**SL74LS192**	(3674)
	Motorola	SN74LS192	
	National	74LS192	
	SGS-Thomson	T74LS192	
		74LS192	
SN74LS193	GoldStar	GD74LS193	
	Lansdale	**SL74LS193**	(3674)
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74LS193			(Cont'd)
	Motorola	SN74LS193	
	National	DM74LS193	
		74LS193	
	SGS-Thomson		
		T74LS193	
		74LS193	
SN74LS194A	GoldStar	GD74LS194A	
	Lansdale	**SL74LS194A**	**(3674)**
	Motorola	SN74LS194A	
	National	DM74LS194A	
	Rochester	74LS194	
	SGS-Thomson		
		T74LS194A	
		74LS194	
SN74LS195A	GoldStar	GD74LS195A	
	Motorola	SN74LS195A	
	National	DM74LS195A	
	SGS-Thomson		
		T74LS195A	
		74LS195	
SN74LS196	Motorola	SN74LS196	
	National	74LS196	
	SGS-Thomson		
		T74LS196	
		74LS196	
SN74LS197	**Lansdale**	**SL74LS197**	**(3674)**
	Motorola	SN74LS197	
	National	74LS197	
	SGS-Thomson		
		T74LS197	
		74LS197	
SN74LS20	GoldStar	GD74LS20	
	Lansdale	**SL74LS20**	**(3674)**
	Motorola	SN74LS20	
	National	DM74LS20	
		74LS20	
	Rochester	74LS20	
	SGS-Thomson		
		T74LS20	
		74LS20	
SN74LS21	GoldStar	GD74LS21	
	Lansdale	**SL74LS21**	**(3674)**
	Motorola	SN74LS21	
	National	DM74LS21	
		74LS21	
	Rochester	74LS21	
	SGS-Thomson		
		T74LS21	
		74LS21	
SN74LS219	Cypress	CY27S07	
SN74LS219A	Motorola	SN74LS22	
	Rochester	74LS22	
	SGS-Thomson		
		T74LS22	
		74LS22	
♦ SN74LS219A	Rochester	74LS219A	
SN74LS221	GoldStar	GD74LS221	
	Motorola	SN74LS221	
	National	DM74LS221	
SN74LS222A	TI	SN74LS224A	
SN74LS224A	TI	SN74LS222A	
SN74LS227	TI	SN74LS228	
SN74LS228	TI	SN74LS227	
SN74LS240	GoldStar	GD74LS240	
	Lansdale	**SL74LS240**	**(3674)**
	Motorola	SN74LS240	
	National	DM74LS240	
		74LS240	
	SGS-Thomson		
		T74LS240	
		74LS240	
SN74LS241	GoldStar	GD74LS241	
	Lansdale	**SL74LS241**	**(3674)**
	Motorola	SN74LS241	
	National	DM74LS241	
		74LS241	
	SGS-Thomson		
		T74LS241	
		74LS241	
SN74LS242	GoldStar	GD74LS242	
	Lansdale	**SL74LS242**	**(3674)**
	Motorola	SN74LS242	
SN74LS243	GoldStar	GD74LS243	
	Lansdale	**SL74LS243**	**(3674)**
	Motorola	SN74LS243	
	National	DM74LS243	
SN74LS244	GoldStar	GD74LS244	
	Lansdale	**SL74LS244**	**(3674)**
	Motorola	SN74LS244	
			(Continued)
SN74LS244			(Cont'd)
	National	DM74LS244	
		74LS244	
	SGS-Thomson		
		T74LS244	
		74LS244	
SN74LS245	GoldStar	GD74LS245	
	Lansdale	**SL74LS245**	**(3674)**
	Motorola	SN74LS245	
	National	DM74LS245	
		74LS245	
	Rochester	74LS245	
	SGS-Thomson		
		T74LS245	
		74LS245	
SN74LS247	Motorola	SN74LS247	
	National	74LS247	
SN74LS251	GoldStar	GD74LS251	
	Lansdale	**SL74LS251**	**(3674)**
	Motorola	SN74LS251	
	National	DM74LS251	
		74LS251	
	Rochester	74LS251	
	SGS-Thomson		
		T74LS251	
		74LS251	
SN74LS253	**Lansdale**	**SL74LS253**	**(3674)**
	Motorola	SN74LS253	
	National	DM74LS253	
		74LS253	
	Rochester	74LS253	
	SGS-Thomson		
		T74LS253	
		74LS253	
SN74LS257B	GoldStar	GD74LS257A	
	Lansdale	**SL74LS257A**	**(3674)**
	Motorola	SN74LS257A	
		SN74LS257B	
	National	DM74LS257B	
		74LS257	
	Rochester	74LS257	
	SGS-Thomson		
		T74LS257A	
		74LS257	
SN74LS258B	GoldStar	GD74LS258B	
	Lansdale	**SL74LS258A**	**(3674)**
	Motorola	SN74LS258A	
		SN74LS258B	
	National	DM74LS258B	
		74LS258	
	Rochester	74LS258	
	SGS-Thomson		
		T74LS258A	
		74LS258	
SN74LS259B	GoldStar	GD74LS259	
	Lansdale	**SL74LS259**	**(3674)**
	Motorola	SN74LS259	
	National	DM74LS259	
		74LS259	
	Rochester	74LS259	
	SGS-Thomson		
		T74LS259	
		74LS259	
SN74LS26	GoldStar	GD74LS26	
	Lansdale	**SL74LS26**	**(3674)**
	Motorola	SN74LS26	
	National	DM74LS26	
		74LS26	
	Rochester	74LS26	
	SGS-Thomson		
		T74LS26	
		T74LS26A	
		74LS26	
♦ SN74LS261	Rochester	74LS261	
SN74LS266	**Lansdale**	**SL74LS266**	**(3674)**
	Motorola	SN74LS266	
	National	74LS266	
	Rochester	74LS266	
	SGS-Thomson		
		T74LS266	
		74LS266	
SN74LS27	GoldStar	GD74LS27	
	Lansdale	**SL74LS27**	**(3674)**
	Motorola	SN74LS27	
	National	DM74LS27	
		74LS27	
	Rochester	74LS27	
	SGS-Thomson		
		T74LS27	
		74LS27	
SN74LS273	GoldStar	GD74LS273	
	Lansdale	**SL74LS273**	**(3674)**
			(Continued)
SN74LS273			(Cont'd)
	Motorola	SN74LS273	
	National	74LS273	
	SGS-Thomson		
		T74LS273	
		74LS273	
♦ SN74LS275	Rochester	74LS275	
SN74LS279A	Motorola	SN74LS279	
	National	DM74LS279	
		74LS279	
	Rochester	74LS279	
	SGS-Thomson		
		T74LS279	
		74LS279	
SN74LS28	Motorola	SN74LS28	
	National	74LS28	
	SGS-Thomson		
		T74LS28	
		74LS28	
SN74LS280	GoldStar	GD74LS280	
	Motorola	SN74LS280	
	SGS-Thomson		
		T74LS280	
		74LS280	
SN74LS283	GoldStar	GD74LS283	
	Lansdale	**SL74LS283**	**(3674)**
	Motorola	SN74LS283	
	National	DM74LS283	
		74LS283	
	Rochester	74LS283	
	SGS-Thomson		
		T74LS283	
		74LS283	
SN74LS290	Motorola	SN74LS290	
	National	DM74LS290	
		74LS290	
	SGS-Thomson		
		T74LS290	
SN74LS292	Motorola	SN74LS293	
	National	DM74LS293	
		74LS293	
	SGS-Thomson		
		T74LS293	
		74LS293	
	TI	SN74LS293	
SN74LS293	Motorola	SN74LS293	
	National	DM74LS293	
		74LS293	
	SGS-Thomson		
		T74LS293	
		74LS293	
	TI	SN74LS292	
SN74LS294	**Lansdale**	**SL74LS295B**	**(3674)**
	SGS-Thomson		
		T74LS295A	
		74LS295A	
	TI	SN74LS295B	
SN74LS295B	**Lansdale**	**SL74LS295B**	**(3674)**
	SGS-Thomson		
		T74LS295A	
		74LS295A	
	TI	SN74LS294	
SN74LS297	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	**(3674)**
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson		
		T74LS298	
		74LS298	
	TI	SN74LS298	
SN74LS298	GoldStar	GD74LS298	
	Lansdale	**SL74LS298**	**(3674)**
	Motorola	SN74LS298	
	National	74LS298	
	SGS-Thomson		
		T74LS298	
		74LS298	
	TI	SN74LS297	
SN74LS299	Motorola	SN74LS299	
	National	74LS299	
SN74LS30	GoldStar	GD74LS30	
	Lansdale	**SL74LS30**	**(3674)**
	Motorola	SN74LS30	
	National	DM74LS30	
		74LS30	
	Rochester	74LS30	
	SGS-Thomson		
		T74LS30	
		74LS30	
SN74LS31	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
			(Continued)
SN74LS31			(Cont'd)
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
	TI	SN74LS32	
SN74LS32	GoldStar	GD74LS32	
	Lansdale	**SL74LS32**	**(3674)**
	Motorola	SN74LS32	
	National	DM74LS32	
		74LS32	
	Rochester	74LS32	
	SGS-Thomson		
		T74LS32	
		74LS32	
	TI	SN74LS31	
SN74LS321	Rochester	74LS321	
SN74LS322A	GoldStar	GD74LS322	
	Motorola	SN74LS322A	
	National	74LS322	
SN74LS323	Motorola	SN74LS323	
	National	74LS323	
SN74LS33	**Lansdale**	**SL74LS33**	**(3674)**
	Motorola	SN74LS33	
	National	74LS33	
	SGS-Thomson		
		T74LS33	
		74LS33	
SN74LS348	Motorola	SN74LS348	
	National	74LS347	
SN74LS352	**Lansdale**	**SL74LS352**	**(3674)**
	Motorola	SN74LS352	
	National	DM74LS352	
		74LS352	
	SGS-Thomson		
		T74LS352	
		74LS352	
SN74LS353	**Lansdale**	**SL74LS353**	**(3674)**
	Motorola	SN74LS353	
	National	74LS353	
	SGS-Thomson		
		T74LS353	
		74LS353	
SN74LS354	TI	SN74LS356	
♦ SN74LS355	Rochester	74LS355	
SN74LS356	TI	SN74LS354	
SN74LS365A	**Lansdale**	**SL74LS365A**	**(3674)**
	Motorola	SN74LS365A	
	National	DM74LS365A	
		74LS365	
	Rochester	74LS365	
	SGS-Thomson		
		T74LS365A	
		74LS365A	
SN74LS366A	GoldStar	GD74LS366A	
	Lansdale	**SL74LS366A**	**(3674)**
	Motorola	SN74LS366A	
	National	DM74LS366A	
		74LS366	
	SGS-Thomson		
		T74LS366A	
		74LS366A	
SN74LS367A	GoldStar	GD74LS367A	
	Motorola	SN74LS367A	
	National	DM74LS367A	
		74LS367	
	Rochester	74LS367	
	SGS-Thomson		
		T74LS367A	
		74LS367A	
SN74LS368A	GoldStar	GD74LS368A	
	Lansdale	**SL74LS368A**	**(3674)**
	Motorola	SN74LS368A	
	National	DM74LS368A	
		74LS368	
	Rochester	74LS368	
	SGS-Thomson		
		T74LS368A	
		74LS368A	
SN74LS37	**Lansdale**	**SL74LS37**	**(3674)**
	Motorola	SN74LS37	
	National	DM74LS37	
		74LS37	
	Rochester	74LS37	
	SGS-Thomson		
		T74LS37	
		74LS37	
SN74LS373	GoldStar	GD74LS373	
	Lansdale	**SL74LS373**	**(3674)**
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74LS373			(Cont'd)
	Motorola	SN74LS373	
	National	DM74LS373	
		74LS373	
	SGS-Thomson	T74LS373	
		74LS373	
SN74LS374	GoldStar	GD74LS374	
	Lansdale	**SL74LS374**	**(3674)**
	Motorola	SN74LS374	
	National	DM74LS374	
		74LS374	
	SGS-Thomson	T74LS374	
		74LS374	
SN74LS375	**Lansdale**	**SL74LS375**	**(3674)**
	Motorola	SN74LS375	
	National	74LS375	
SN74LS377	GoldStar	GD74LS377	
	Lansdale	**SL74LS377**	**(3674)**
	Motorola	SN74LS377	
	National	74LS377	
	SGS-Thomson	T74LS377	
		74LS377	
SN74LS378	**Lansdale**	**SL74LS378**	**(3674)**
	Motorola	SN74LS378	
	National	74LS378	
	SGS-Thomson	T74LS378	
		74LS378	
SN74LS379	Motorola	SN74LS379	
	National	74LS379	
	SGS-Thomson	T74LS379	
		74LS379	
SN74LS38	GoldStar	GD74LS38	
	Lansdale	**SL74LS38**	**(3674)**
	Motorola	SN74LS38	
	National	DM74LS38	
		74LS38	
	Rochester	74LS38	
	SGS-Thomson	T74LS38	
		74LS38	
SN74LS381A	National	DM74LS380	
SN74LS382	Rochester	74LS382	
SN74LS382A	Motorola	SN74LS386	
	National	74LS386	
	Rochester	74LS386	
◆ SN74LS384	Rochester	74LS384	
SN74LS390	GoldStar	GD74LS390	
	Lansdale	**SL74LS390**	**(3674)**
	Motorola	SN74LS390	
	National	DM74LS390	
	SGS-Thomson	T74LS390	
		74LS390	
SN74LS393	GoldStar	GD74LS393	
	Lansdale	**SL74LS393**	**(3674)**
	Motorola	SN74LS393	
	National	DM74LS393	
		74LS393	
	SGS-Thomson	T74LS393	
		74LS393	
SN74LS395A	GoldStar	GD74LS395	
	Lansdale	**SL74LS395A**	**(3674)**
	Motorola	SN74LS395	
	National	74LS395	
	SGS-Thomson	T74LS395A	
		74LS395	
SN74LS399	Motorola	SN74LS399	
	SGS-Thomson	T74LS399	
		74LS399	
SN74LS40	Lansdale	SL74LS40	
	Motorola	SN74LS40	
	National	74LS40	
	SGS-Thomson	T74LS40	
		74LS40	
SN74LS42	GoldStar	GD74LS42	
	Lansdale	SL74LS42	
	Motorola	SN74LS42	
	National	DM74LS42	
		74LS42	
	Rochester	74LS42	
	SGS-Thomson	T74LS42	
		74LS42	
◆ SN74LS422	Rochester	74LS422	
◆ SN74LS440	Rochester	74LS440	
◆ SN74LS441	Rochester	74LS441	
SN74LS442	National	74LS447	
◆ SN74LS444	Rochester	74LS444	
SN74LS465	TI	SN74LS466	
SN74LS466	TI	SN74LS465	
◆ SN74LS468	Rochester	74LS468	
SN74LS47	Motorola	SN74LS47	
	National	74LS47	
SN74LS51	GoldStar	GD74LS51	
	Lansdale	**SL74LS51**	**(3674)**
	Motorola	SN74LS51	
	National	DM74LS51	
		74LS503	
		74LS51	
	Rochester	74LS51	
	SGS-Thomson	T74LS51	
		74LS51	
SN74LS54	**Lansdale**	**SL74LS54**	**(3674)**
	Motorola	SN74LS54	
	National	74LS54	
	SGS-Thomson	T74LS54	
		74LS54	
SN74LS540	**Lansdale**	**SL74LS540**	**(3674)**
	Motorola	SN74LS540	
	National	74LS540	
	SGS-Thomson	T74LS540	
SN74LS541	**Lansdale**	**SL74LS541**	**(3674)**
	Motorola	SN74LS541	
	SGS-Thomson	T74LS541	
SN74LS55	GoldStar	GD74LS55	
	Motorola	SN74LS55	
	National	74LS55	
	Rochester	74LS55	
	SGS-Thomson	T74LS541B1	
		T74LS55	
		74LS55	
SN74LS590	GoldStar	GD74LS590	
SN74LS591	Rochester	74LS591	
◆ SN74LS591	Rochester	74LS591	
SN74LS592	TI	SN74LS593	
SN74LS593	TI	SN74LS592	
SN74LS594	TI	SN74LS595	
SN74LS595	TI	SN74LS594	
SN74LS597	TI	SN74LS598	
SN74LS598	TI	SN74LS597	
SN74LS599	TI	SN74LS607	
◆ SN74LS600	Rochester	74LS600	
◆ SN74LS601	Rochester	74LS601	
SN74LS607	TI	SN74LS599	
◆ SN74LS607	Rochester	74LS607	
◆ SN74LS610	Rochester	74LS610	
	TI	SN74LS611	
SN74LS613	**Lansdale**	**SL74LS620**	**(3674)**
SN74LS623	**Lansdale**	**SL74LS623**	**(3674)**
	Motorola	SN74LS623	
	Rochester	74LS623	
◆ SN74LS623	Rochester	74LS623	
SN74LS624	TI	SN74LS625	
SN74LS625	TI	SN74LS624	
◆ SN74LS627	Rochester	74LS627	
SN74LS628	TI	SN74LS629	
SN74LS629	TI	SN74LS628	
◆ SN74LS63A	Rochester	74LS63A	
◆ SN74LS637	Rochester	74LS637	
SN74LS640	GoldStar	GD74LS640	
		GD74LS640-1	
	Lansdale	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
	Motorola	SN74LS640	
	TI	SN74LS640-1	
SN74LS640-1	GoldStar	GD74LS640	
		GD74LS640-1	
	Lansdale	**SL74LS640**	**(3674)**
		SL74LS640-1	**(3674)**
	Motorola	SN74LS640	
	TI	SN74LS640	
SN74LS641	**Lansdale**	**SL74LS641**	**(3674)**
		SL74LS641-1	**(3674)**
	Motorola	SN74LS641	
	TI	SN74LS641-1	
SN74LS641-1	**Lansdale**	**SL74LS641**	**(3674)**
		SL74LS641-1	**(3674)**
	Motorola	SN74LS641	
	TI	SN74LS641	
SN74LS642	**Lansdale**	**SL74LS642**	**(3674)**
		SL74LS642-1	**(3674)**
	Motorola	SN74LS642	
	TI	SN74LS642-1	
SN74LS642-1	**Lansdale**	**SL74LS642**	**(3674)**
		SL74LS642-1	**(3674)**
	Motorola	SN74LS642	
	TI	SN74LS642	
SN74LS644	TI	SN74LS644-1	
◆ SN74LS644	Rochester	74LS644	
SN74LS644-1	TI	SN74LS644	
SN74LS645	**Lansdale**	**SL74LS645**	**(3674)**
		SL74LS645-1	**(3674)**
	Motorola	SN74LS645	
	SGS-Thomson	T74LS645	
	TI	SN74LS645-1	
SN74LS645-1	**Lansdale**	**SL74LS645**	**(3674)**
		SL74LS645-1	**(3674)**
	Motorola	SN74LS645	
	SGS-Thomson	T74LS645	
	TI	SN74LS645	
SN74LS646	GoldStar	GD74LS646	
	SGS-Thomson	T74LS645B1	
SN74LS648	TI	SN74LS651	
SN74LS651	TI	SN74LS648	
SN74LS652	Motorola	SN74LS669	
	TI	SN74LS669	
◆ SN74LS653	Rochester	74LS653	
SN74LS669	Motorola	SN74LS669	
	TI	SN74LS652	
SN74LS670	GoldStar	GD74LS670	
	Lansdale	**SL74LS670**	**(3674)**
	Motorola	SN74LS670	
	National	DM74LS670	
		74LS670	
	Rochester	74LS670	
	SGS-Thomson	T74LS670	
		74LS670	
◆ SN74LS671	Rochester	74LS671	
SN74LS674	TI	SN74LS681	
◆ SN74LS68	Rochester	74LS68	
SN74LS681	TI	SN74LS674	
SN74LS682	Motorola	SN74LS682	
SN74LS684	Motorola	SN74LS684	
◆ SN74LS685	Rochester	74LS685	
SN74LS688	GoldStar	GD74LS688	
	Motorola	SN74LS688	
◆ SN74LS69	Rochester	74LS69	
◆ SN74LS690	Rochester	74LS690	
SN74LS697	TI	SN74LS699	
SN74LS699	TI	SN74LS697	
SN74LS73A	GoldStar	GD74LS73A	
	Lansdale	**SL74LS73**	**(3674)**
	Motorola	SN74LS73A	
	National	DM74LS73A	
SN74LS74A	GoldStar	GD74LS74A	
	Lansdale	**SL74LS74A**	**(3674)**
	Motorola	SN74LS74A	
	National	DM74LS74	
		74LS74	
	Rochester	74LS74	
	SGS-Thomson	T74LS74A	
		74LS74	
SN74LS75	**Lansdale**	**SL74LS75**	**(3674)**
	Motorola	SN74LS748	
		SN74LS75	
	National	DM74LS75	
	Rochester	74LS75	
	SGS-Thomson	T74LS75	
SN74LS76A	**Lansdale**	**SL74LS76**	**(3674)**
	Motorola	SN74LS76A	
	SGS-Thomson	T74LS75B1	
◆ SN74LS78	Rochester	74LS78	
SN74LS83A	**Lansdale**	**SL74LS83A**	**(3674)**
	Motorola	SN74LS83A	
	National	DM74LS83A	
		74LS83	
	Rochester	74LS83	
	SGS-Thomson	T74LS83A	
		74LS83A	
SN74LS85	GoldStar	GD74LS85	
	Lansdale	**SL74LS85**	**(3674)**
	Motorola	SN74LS848	
		SN74LS85	
	National	DM74LS85	
		74LS85	
	Rochester	74LS85	
SN74LS86A	GoldStar	GD74LS86	
	Lansdale	**SL74LS86**	**(3674)**
	Motorola	SN74LS86	
	National	DM74LS86	
		74LS86	
	Rochester	74LS86	
	SGS-Thomson	T74LS86	
		74LS86	
SN74LS90	GoldStar	GD74LS90	
	Lansdale	**SL74LS90**	**(3674)**
	Motorola	SN74LS90	
	National	DM74LS90	
	Rochester	74LS90	
	SGS-Thomson	T74LS90	
		74LS90	
SN74LS91	SGS-Thomson	T74LS90B1	
		T74LS91	
SN74LS92	GoldStar	GD74LS92	
	Lansdale	**SL74LS92**	**(3674)**
	Motorola	SN74LS92	
	SGS-Thomson	T74LS92	
SN74LS93	GoldStar	GD74LS93	
	Lansdale	**SL74LS93**	**(3674)**
	Motorola	SN74LS93	
	National	DM74LS93	
	Rochester	74LS93	
	SGS-Thomson	T74LS93	
		74LS93	
SN74LS95B	GoldStar	GD74LS95B	
	Lansdale	**SL74LS95B**	**(3674)**
	Motorola	SN74LS95B	
	National	74LS95B	
	SGS-Thomson	T74LS93B1	
		T74LS95B	
		74LS95B	
SN74LS96	**Lansdale**	**SL74LS96**	**(3674)**
SN74LVC00	Philips	74LVC00	
SN74LVC02	Philips	74LVC02	
SN74LVC04	Philips	74LVC04	
SN74LVC08	Philips	74LVC08	
SN74LVC10	TI	SN74LVC112	
SN74LVC112	TI	SN74LVC10	
SN74LVC125	Philips	74LVC125	
SN74LVC138	TI	SN74LVC14	
SN74LVC14	TI	SN74LVC138	
SN74LVC157	Philips	74LVC157	
SN74LVC240	Philips	74LVC240	
SN74LVC244	Philips	74LVC241	
		74LVC244	
SN74LVC245	Philips	74LVC245	
SN74LVC257	TI	SN74LVC2952	
SN74LVC2952	TI	SN74LVC257	
SN74LVC32	Philips	74LVC32	
SN74LVC373	Philips	74LVC373	
SN74LVC374	Philips	74LVC374	
SN74LVC540	Philips	74LVC38	
SN74LVC541	Philips	74LVC543	
	TI	SN74LVC543	
SN74LVC543	Philips	74LVC543	
	TI	SN74LVC541	
SN74LVC573	Philips	74LVC573	
SN74LVC574	Philips	74LVC574	
SN74LVC646	Philips	74LVC640	
		74LVC646	
SN74LVC652	Philips	74LVC652	
SN74LVC74	Philips	74LVC74	
SN74LVC821	TI	SN74LVC823	
SN74LVC823	TI	SN74LVC821	
SN74LVC827	TI	SN74LVC841	
SN74LVC841	TI	SN74LVC827	
SN74LVC843	Philips	74LVC86	
	TI	SN74LVC86	

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74LVC86	Philips	74LVC86	
	TI	SN74LVC843	
SN74LVC861	TI	SN74LVC863	
SN74LVC863	TI	SN74LVC861	
SN74LV00	Philips	74LV00	
	Toshiba	**TC74LVX86**	**(3837)**
SN74LV02	Philips	74LV02	
SN74LV04	Philips	74LV04	
SN74LV08	Philips	74LV08	
SN74LV138	Philips	74LV125	
		74LV138	
SN74LV14	Philips	74LV139	
		74LV14	
SN74LV164	Philips	74LV157	
		74LV164	
SN74LV174	Philips	74LV174	
SN74LV240	Philips	74LV240	
SN74LV244	Philips	74LV244	
SN74LV245	Philips	74LV245	
SN74LV273	Philips	74LV259	
		74LV273	
SN74LV32	Philips	74LV32	
SN74LV373	Philips	74LV373	
SN74LV374	Philips	74LV374	
SN74LV573	Philips	74LV573	
SN74LV574	Philips	74LV574	
SN74LV74	Philips	74LV74	
♦ SN74L00	Rochester	74L00	
♦ SN74L01	Rochester	74L01	
♦ SN74L02	Rochester	74L02	
♦ SN74L03	Rochester	74L03	
♦ SN74L04	Rochester	74L04	
♦ SN74L10	Rochester	74L10	
♦ SN74L121	Rochester	74L121	
♦ SN74L122	Rochester	74L122	
♦ SN74L123	Rochester	74L123	
♦ SN74L153	Rochester	74L153	
♦ SN74L154A	Rochester	74L154A	
♦ SN74L157	Rochester	74L157	
♦ SN74L164	Rochester	74L164	
♦ SN74L165	Rochester	74L165A	
♦ SN74L192	Rochester	74L192	
♦ SN74L193	Rochester	74L193	
SN74L20	Rochester	74L20	
♦ SN74L30	Rochester	74L30	
♦ SN74L42	Rochester	74L42	
♦ SN74L51	Rochester	74L51	
♦ SN74L54	Rochester	74L54	
♦ SN74L55	Rochester	74L55	
♦ SN74L71	Rochester	74L71	
♦ SN74L72	Rochester	74L72	
♦ SN74L73	Rochester	74L73	
♦ SN74L74	Rochester	74L74	
♦ SN74L75	Rochester	74L75	
♦ SN74L78	Rochester	74L78	
♦ SN74L85	Rochester	74L85	
♦ SN74L86	Rochester	74L86	
♦ SN74L91	Rochester	74L91	
♦ SN74L93	Rochester	74L93	
♦ SN74L95	Rochester	74L95	
♦ SN74L96	Rochester	74L96	
♦ SN74L98	Rochester	74L98	
♦ SN74L99	Rochester	74L99	
♦ SN74SA74	Lansdale	HL7641	
SN74S00	GoldStar	GD74S00	
	Lansdale	**SL74S00**	**(3675)**
	National	DM74S00	
		74S00	
	Rochester	74S00	
SN74S02	GoldStar	GD74S02	
	Lansdale	**SL74S02**	**(3675)**
	National	DM74S02	
		74S02	
	Rochester	74S02	
SN74S03	**Lansdale**	**SL74S03**	**(3675)**
	National	DM74S03	
		74S03	
	Rochester	74S03	
SN74S04	GoldStar	GD74S04	
	Lansdale	**SL74S04**	**(3675)**
	National	DM74S04	
		74S04	
	Rochester	74S04	
SN74S05	GoldStar	GD74S05	
	Lansdale	**SL74S05**	**(3675)**
	National	DM74S05	
		74S05	
	Rochester	74S05	
SN74S08	GoldStar	GD74S08	
	Lansdale	**SL74S08**	**(3675)**

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74S08			(Cont'd)
	National	DM74S08	
		74S08	
	Rochester	74S08	
SN74S09	National	DM74S09	
	Rochester	74S09	
SN74S10	GoldStar	GD74S10	
	Lansdale	**SL74S10**	**(3675)**
	National	DM74S10	
		74S10	
	Rochester	74S10	
SN74S1050	TI	SN74S1051	
SN74S1051	TI	SN74S1050	
SN74S1052	TI	SN74S1053	
SN74S1053	TI	SN74S1052	
SN74S11	**Lansdale**	**SL74S11**	**(3675)**
	National	DM74S11	
		74S109	
		74S11	
	Rochester	74S11	
SN74S112	GoldStar	GD74S112	
	Lansdale	**SL74S112**	**(3675)**
	National	DM74S112	
		74S112	
	Rochester	74S112	
SN74S113	Lansdale	SL74S113	
	National	DM74S113	
	Rochester	74S113	
SN74S114	Rochester	74S114	
SN74S124	National	74S132	
	TI	SN74S132	
SN74S132	National	74S132	
	TI	SN74S124	
SN74S133	GoldStar	GD74S133	
	Lansdale	**SL74S133**	**(3675)**
	National	DM74S133	
		74S133	
	Rochester	74S133	
SN74S134	**Lansdale**	**SL74S134**	**(3675)**
	Rochester	74S134	
SN74S135	Lansdale	SL74S135	
	National	74S135	
	Rochester	74S135	
SN74S138	GoldStar	GD74S138	
	Lansdale	**SL74S138**	**(3675)**
	National	DM74S138	
		74S138	
	Rochester	74S138	
SN74S139	GoldStar	GD74S139	
	Lansdale	**SL74S139**	**(3675)**
	National	DM74S139	
		74S139	
	Rochester	74S139	
SN74S140	**Lansdale**	**SL74S140**	**(3675)**
	National	DM74S140	
	Rochester	74S140	
SN74S15	Rochester	74S15	
SN74S151	**Lansdale**	**SL74S151**	**(3675)**
	National	DM74S151	
		74S151	
	Rochester	74S151	
SN74S153	GoldStar	GD74S153	
	Lansdale	**SL74S153**	**(3675)**
	National	DM74S153	
		74S153	
	Rochester	74S153	
SN74S157	GoldStar	GD74S157	
	Lansdale	**SL74S157**	**(3675)**
	National	DM74S157	
		74S157	
	Rochester	74S157	
SN74S158	GoldStar	GD74S158	
	Lansdale	**SL74S158**	**(3675)**
	National	DM74S158	
		74S158	
	Rochester	74S158	
SN74S162	GoldStar	GD74S163A	
	TI	SN74S163	
SN74S163	GoldStar	GD74S163A	
	Rochester	74S163	
	TI	SN74S162	
SN74S168	Rochester	74S168	
SN74S169	GoldStar	GD74S169A	
SN74S174	GoldStar	GD74S174	
	Lansdale	**SL74S174**	**(3675)**
	National	DM74S174	
		74S174	
	Rochester	74S174	
SN74S175	GoldStar	GD74S175	
	Lansdale	**SL74S175**	**(3675)**
	National	DM74S175	
		74S175	
	Rochester	74S175	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74S178	Rochester	74S178	
SN74S181	**Lansdale**	**SL74S181**	**(3675)**
	Rochester	74S181	
SN74S182	Lansdale	SL74S182	
	National	DM74S182	
	Rochester	74S182	
♦ SN74S188	Lansdale	HL7602	
SN74S189	Cypress	CY7C189	
		CY74S189	
	Lansdale	**SL74S189**	**(3675)**
	Rochester	74S189	
SN74S194	**Lansdale**	**SL74S194**	**(3675)**
	National	DM74S194	
		74S194	
	Rochester	74S194	
SN74S195	**Lansdale**	**SL74S195**	**(3675)**
	National	DM74S195	
	Rochester	74S195	
♦ SN74S195	Rochester	93H00	
SN74S196	TI	SN74S197	
SN74S197	TI	SN74S196	
SN74S20	GoldStar	GD74S20	
	Lansdale	**SL74S20**	**(3675)**
	National	DM74S20	
		74S20	
	Rochester	74S20	
SN74S22	Rochester	74S22	
SN74S225	**Lansdale**	**SL74S225**	**(3675)**
SN74S226	Rochester	74S226	
SN74S240	GoldStar	GD74S240	
	Lansdale	**SL74S240**	**(3675)**
	National	DM74S240	
	Rochester	74S240	
SN74S241	GoldStar	GD74S241	
	Lansdale	**SL74S241**	**(3675)**
	National	DM74S241	
	Rochester	74S241	
SN74S244	GoldStar	GD74S244	
	Lansdale	**SL74S244**	**(3675)**
	Rochester	74S244	
SN74S251	GoldStar	GD74S251	
	Lansdale	**SL74S251**	**(3675)**
	National	DM74S251	
	Rochester	74S251	
SN74S253	**Lansdale**	**SL74S253**	**(3675)**
	National	DM74S253	
		74S253	
	Rochester	74S253	
SN74S257	GoldStar	GD74S257	
	Lansdale	**SL74S257**	**(3675)**
	National	DM74S257	
		74S257	
	Rochester	74S257	
SN74S258	**Lansdale**	**SL74S258**	**(3675)**
	National	DM74S258	
		74S258	
	Rochester	74S258	
SN74S260	**Lansdale**	**SL74S260**	**(3675)**
	Rochester	74S260	
SN74S280	GoldStar	GD74S280	
	Lansdale	**SL74S280**	**(3675)**
	National	DM74S280	
SN74S281	TI	SN74S283	
♦ SN74S281	Rochester	74S281	
SN74S283	Rochester	74S283	
	TI	SN74S281	
♦ SN74S287	Lansdale	HL7611	
♦ SN74S288	Lansdale	HL7603	
SN74S299	National	DM74S299	
SN74S30	GoldStar	GD74S30	
	National	DM74S30	
		74S30	
	Rochester	74S30	
SN74S32	GoldStar	GD74S32	
	Lansdale	**SL74S32**	**(3675)**
	National	DM74S32	
		74S32	
	Rochester	74S32	
SN74S37	**Lansdale**	**SL74S37**	**(3675)**
SN74S373	**Lansdale**	**SL74S373**	**(3675)**
	National	DM74S373	
	Rochester	74S373	
SN74S374	GoldStar	GD74S374	
	Lansdale	**SL74S374**	**(3675)**
	National	DM74S374	
	Rochester	74S374	
SN74S38	**Lansdale**	**SL74S38**	**(3675)**
	Rochester	74S38	
SN74S381	National	DM74S387	
		DM74S387A-30	
		DM74S387A-50	
♦ SN74S387	Lansdale	HL7610	

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Manufacturer Device	Replacement Source	Device	IC Master Page
SN74S40	**Lansdale**	**SL74S40**	**(3675)**
	National	DM74S40	
		74S40	
	Rochester	74S40	
SN74S412	National	DP8212	
SN74S428	National	DP8228	
SN74S438	National	DP8238	
♦ SN74S454	Lansdale	HL7685	
♦ SN74S472	Lansdale	HL7649	
SN74S474	Hughes	H1831	
		H1832	
SN74S475	Hughes	H1831	
		H1832	
♦ SN74S475	Lansdale	HL7640	
♦ SN74S476	Lansdale	HL7643	
♦ SN74S477	Lansdale	HL7642	
♦ SN74S478	Lansdale	HL7681	
SN74S482	GoldStar	GD74S51	
	Lansdale	**SL74S51**	**(3675)**
	National	DM74S51	
		74S51	
	TI	SN74S51	
SN74S51	GoldStar	GD74S51	
	Lansdale	**SL74S51**	**(3675)**
	National	DM74S51	
		74S51	
	Rochester	74S51	
	TI	SN74S482	
SN74S64	GoldStar	GD74S64	
	Lansdale	**SL74S64**	**(3675)**
	National	DM74S64	
		74S64	
	Rochester	74S64	
SN74S65	Rochester	74S65	
SN74S74	GoldStar	GD74S74	
	Lansdale	**SL74S74**	**(3675)**
	National	DM74S74	
		74S74	
	Rochester	74S74	
SN74S85	GoldStar	GD74S85	
	Lansdale	**SL74S85**	**(3675)**
SN74S86	GoldStar	GD74S86	
	Lansdale	**SL74S86**	**(3675)**
	National	DM74S86	
		74S86	
	Rochester	74S86	
SN74S8840	**Toshiba**	**TC74VHCT00**	**(3837)**
SN7400	Lansdale	SL7400	
♦ SN7400	**Lansdale**	**ML7400**	**(3668)**
	Rochester	7400	
♦ SN7401	**Lansdale**	**ML7401**	**(3668)**
		SL7401	
♦ SN7401	Rochester	7401	
♦ SN7402	**Lansdale**	**ML7402**	**(3668)**
		SL7402	
♦ SN7402	Rochester	7402	
SN7403	Lansdale	SL7403	
♦ SN7403	**Lansdale**	**ML7403**	**(3668)**
	Rochester	7403	
SN7404	Lansdale	SL7404	
	Rochester	7404	
♦ SN7404	**Lansdale**	**ML7404**	**(3668)**
	Rochester	8004	
SN7405	Lansdale	SL7405	
♦ SN7405	**Lansdale**	**ML7405**	**(3668)**
	Rochester	7405	
SN7406	Lansdale	SL7406	
♦ SN7406	**Lansdale**	**ML7406**	**(3668)**
	Rochester	7406	
SN7407	Lansdale	SL7407	
♦ SN7407	**Lansdale**	**ML7407**	**(3668)**
	Rochester	7407	
SN7408	Lansdale	SL7408	
♦ SN7408	**Lansdale**	**ML7408**	**(3668)**
	Rochester	7408	
♦ SN7409	**Lansdale**	**ML7409**	**(3668)**
		SL7409	
♦ SN7409	Rochester	7409	
SN7410	Lansdale	SL7410	
♦ SN7410	**Lansdale**	**ML7410**	**(3668)**
	Rochester	7410	
♦ SN74100	**Lansdale**	**ML74100**	**(3669)**
		SL74100	
♦ SN74100	Rochester	74100	
♦ SN74105	Rochester	74105	
SN74107	Lansdale	SL74107	
♦ SN74107	**Lansdale**	**ML74107**	**(3669)**
	Rochester	74107	
♦ SN74111	Rochester	74111	
♦ SN7412	Lansdale	ML7412	
	Rochester	7412	
SN74121	Lansdale	SL74121	

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♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN74121	**Lansdale**	**ML74121**	**(3669)**
	Rochester	74121	
♦ SN74122	**Lansdale**	**ML74122**	**(3669)**
SN74123	Lansdale	SL74123	
♦ SN74123	**Lansdale**	**ML74123**	**(3669)**
	Rochester	74123	
SN74125	Lansdale	SL74125	
♦ SN74125	Rochester	74125	
		8093	
SN74126	Lansdale	SL74126	
♦ SN74126	Rochester	74126	
SN7413	**Lansdale**	**ML7413**	**(3668)**
		SL7413	
♦ SN7413	Rochester	7413	
SN74132	**Lansdale**	**ML74132**	**(3669)**
		SL74132	
♦ SN74132	Rochester	74132	
♦ SN74136	**Lansdale**	**ML74136**	**(3669)**
SN7414	**Lansdale**	**ML7414**	**(3668)**
		SL7414	
♦ SN7414	Rochester	7414	
♦ SN74141	Lansdale	ML74141	
	Rochester	74141	
♦ SN74143	Rochester	74143	
♦ SN74144	Rochester	74144	
SN74145	Lansdale	SL74145	
♦ SN74145	Lansdale	ML74145	
	Rochester	74145	
SN74148	Lansdale	SL74148	
♦ SN74148	Rochester	74148	
SN74150	Lansdale	SL74150	
♦ SN74150	**Lansdale**	**ML74150**	**(3669)**
	Rochester	74150	
		8218	
SN74151	Lansdale	SL74151	
♦ SN74151	**Lansdale**	**ML74151**	**(3669)**
	Rochester	74151	
♦ SN74152	**Lansdale**	**ML74152**	**(3669)**
		SL74152	
♦ SN74152	Rochester	74152	
SN74152A	Rochester	74152A	
SN74153	Lansdale	SL74153	
♦ SN74153	**Lansdale**	**ML74153**	**(3669)**
	Rochester	74153	
		8212	
SN74154	Lansdale	SL74154	
♦ SN74154	**Lansdale**	**ML74154**	**(3669)**
SN74155	Lansdale	SL74155	
♦ SN74155	**Lansdale**	**ML74155**	**(3669)**
	Rochester	74155	
SN74156	Lansdale	SL74156	
♦ SN74156	Lansdale	ML74156	
	Rochester	74156	
SN74157	Lansdale	SL74157	
♦ SN74157	Rochester	74157	
		8122	
SN7416	Lansdale	SL7416	
♦ SN7416	**Lansdale**	**ML7416**	**(3668)**
	Rochester	7416	
SN74160	Lansdale	SL74160	
♦ SN74160	**Lansdale**	**ML74160**	**(3669)**
	Rochester	74160	
SN74161	Lansdale	SL74161	
♦ SN74161	**Lansdale**	**ML74161**	**(3669)**
	Rochester	74161	
♦ SN74162	**Lansdale**	**ML74162**	**(3669)**
	Rochester	74162	
SN74163	Lansdale	SL74163	
♦ SN74163	**Lansdale**	**ML74163**	**(3669)**
	Rochester	74163	
SN74164	Lansdale	SL74164	
♦ SN74164	Lansdale	ML74164	
	Rochester	74164	
SN74165	Lansdale	SL74165	
♦ SN74165	**Lansdale**	**ML74165**	**(3669)**
	Rochester	74165	
SN74166	Lansdale	SL74166	
♦ SN74166	Lansdale	ML74166	
	Rochester	74166	
SN74167	**Lansdale**	**ML74167**	**(3669)**
♦ SN74167	Rochester	74167	
SN7417	Lansdale	SL7417	
♦ SN7417	**Lansdale**	**ML7417**	**(3668)**
	Rochester	7417	
		8017	
♦ SN74172	Rochester	74172	
SN74173	Lansdale	SL74173	
♦ SN74173	Rochester	74173	
SN74174	Lansdale	SL74174	
♦ SN74174	**Lansdale**	**ML74174**	**(3669)**
	Rochester	74174	
			(Continued)
SN74175	Lansdale	SL74175	
♦ SN74175	**Lansdale**	**ML74175**	**(3669)**
	Rochester	74175	
♦ SN74176	Lansdale	ML7280	
		ML74176	**(3669)**
♦ SN74176	Rochester	74176	
♦ SN74177	Lansdale	ML7281	
		ML74177	**(3669)**
♦ SN74177	Rochester	74177	
♦ SN74178	Lansdale	ML7270	
		ML74178	
♦ SN74178	Rochester	74178	
♦ SN74179	Lansdale	ML7271	
		ML74179	
♦ SN74179	Rochester	74179	
SN74180	Lansdale	SL74180	
♦ SN74180	**Lansdale**	**ML74180**	**(3669)**
	Rochester	74181	
SN74181	Lansdale	SL74181	
♦ SN74181	**Lansdale**	**ML74181**	**(3669)**
	Rochester	9341	
♦ SN74182	**Lansdale**	**ML74182**	**(3669)**
		SL74182	
♦ SN74182	Rochester	74182	
		9342	
♦ SN74184	Rochester	74184	
♦ SN74185	Rochester	74185	
♦ SN74189	Rochester	74185	
SN74190	Lansdale	SL74190	
♦ SN74190	**Lansdale**	**ML74190**	**(3669)**
	Rochester	74190	
SN74191	Lansdale	SL74191	
♦ SN74191	**Lansdale**	**ML74191**	**(3669)**
	Rochester	74191	
♦ SN74192	**Lansdale**	**ML74192**	**(3669)**
SN74193	Lansdale	SL74193	
♦ SN74193	**Lansdale**	**ML74193**	**(3669)**
	Rochester	74193	
SN74194	Lansdale	SL74194	
♦ SN74194	**Lansdale**	**ML74194**	**(3669)**
	Rochester	74194	
SN74195	Lansdale	SL74195	
♦ SN74195	**Lansdale**	**ML74195**	**(3669)**
	Rochester	74195	
♦ SN74196	Lansdale	ML7290	
		ML74196	**(3669)**
♦ SN74196	Rochester	74196	
♦ SN74197	**Lansdale**	**ML74197**	**(3669)**
		SL7291	
♦ SN74197	Rochester	74197	
♦ SN74198	Lansdale	ML74198	
		SL74198	
♦ SN74198	Rochester	74198	
SN74199	Lansdale	SL74199	
♦ SN74199	Lansdale	ML74199	
	Rochester	74199	
SN7420	Lansdale	SL7420	
♦ SN7420	**Lansdale**	**ML7420**	**(3668)**
	Rochester	7420	
SN7421	Lansdale	SL7421	
♦ SN7421	Rochester	7421	
SN74221	Lansdale	SL74221	
♦ SN74221	Rochester	74221	
SN7423	**Lansdale**	**ML7423**	**(3668)**
♦ SN7423	Rochester	7423	
♦ SN74247	Rochester	74247	
SN7425	**Lansdale**	**ML7425**	**(3668)**
		SL7425	
♦ SN7425	Rochester	7425	
♦ SN74256	Rochester	74256	
SN7426	Lansdale	SL7426	
♦ SN7426	**Lansdale**	**ML7426**	**(3668)**
	Rochester	7426	
♦ SN74265	Rochester	74265	
SN7427	Lansdale	SL7427	
♦ SN7427	**Lansdale**	**ML7427**	**(3668)**
	Rochester	7427	
♦ SN74273	Rochester	74273	
♦ SN74276	Rochester	74276	
SN74279	Lansdale	ML74279	
		SL74279	
♦ SN74279	Rochester	74279	
SN74293	**Lansdale**	**ML74293**	**(3669)**
♦ SN74293	Rochester	74293	
SN74298	**Lansdale**	**ML74298**	**(3669)**
		SL74298	
♦ SN74298	Rochester	74298	
SN7430	Lansdale	SL7430	
♦ SN7430	**Lansdale**	**ML7430**	**(3668)**
	Rochester	7430	
SN7432	Lansdale	SL7432	
♦ SN7432	Rochester	7432	
SN74368	Lansdale	SL74368A	
			(Continued)
♦ SN74368	Rochester	8098	
SN7437	Lansdale	SL7437	
♦ SN7437	**Lansdale**	**ML7437**	**(3668)**
	Rochester	7437	
SN7438	Lansdale	SL7438	
♦ SN7438	**Lansdale**	**ML7438**	**(3668)**
	Rochester	8038	
♦ SN74390	Rochester	74390	
SN7440	Lansdale	SL7440	
♦ SN7440	**Lansdale**	**ML7440**	**(3668)**
	Rochester	7440	
♦ SN7441	Lansdale	ML7441A	
SN7442	Lansdale	SL7442	
♦ SN7442	**Lansdale**	**ML7442**	**(3668)**
	Rochester	7442	
♦ SN7443	**Lansdale**	**ML7443**	**(3668)**
♦ SN7444	**Lansdale**	**ML7444**	**(3668)**
SN7445	Lansdale	SL7445	
♦ SN7445	Lansdale	ML7445	
	Rochester	7445	
♦ SN7446	Lansdale	ML7446	
	Rochester	7446	
♦ SN7447	Lansdale	ML7447	
		SL7447	
		SL8T04	
♦ SN7448	Lansdale	ML7448	
		SL7448	
♦ SN7448	Rochester	7448	
SN7449	Rochester	7449	
♦ SN7449	Lansdale	ML7449	
SN7450	**Lansdale**	**ML7450**	**(3668)**
		SL7450	
♦ SN7450	Rochester	7450	
SN7451	**Lansdale**	**ML7451**	**(3668)**
		SL7451	
♦ SN7451	**Lansdale**	**ML7450**	**(3668)**
		ML7451	**(3668)**
♦ SN7453	**Lansdale**	**ML7453**	**(3668)**
		SL7453	
♦ SN7453	Rochester	7453	
♦ SN7454	**Lansdale**	**ML7454**	**(3668)**
		SL7454	
♦ SN7454	Rochester	7454	
♦ SN7460	Lansdale	ML7460	
		SL7460	
♦ SN7460	Rochester	7460	
♦ SN7470	**Lansdale**	**ML7470**	**(3668)**
		SL7470	
♦ SN7470	Rochester	7470	
♦ SN7472	**Lansdale**	**ML7472**	**(3668)**
		SL7472	
♦ SN7472	Rochester	7472	
SN7473	Lansdale	SL7473	
♦ SN7473	**Lansdale**	**ML7473**	**(3668)**
	Rochester	7473	
SN7474	Lansdale	SL7474	
♦ SN7474	**Lansdale**	**ML7474**	**(3668)**
	Rochester	7474	
SN7475	Lansdale	SL7475	
♦ SN7475	**Lansdale**	**ML7475**	**(3668)**
	Rochester	7475	
		8550	
SN7476	Lansdale	SL7476	
♦ SN7476	**Lansdale**	**ML7476**	**(3668)**
	Rochester	7476	
♦ SN7480	**Lansdale**	**ML7480**	**(3668)**
		SL7480	
♦ SN7480	Rochester	7480	
SN7481	Lansdale	ML7481	
♦ SN7481	**Lansdale**	**ML4004**	**(3667)**
♦ SN7482	Rochester	7482	
SN7483	**Lansdale**	**ML7483**	**(3668)**
♦ SN7483	**Lansdale**	**ML7483**	**(3668)**
	Rochester	7483	
♦ SN7484	Lansdale	ML7484	
SN7485	**Lansdale**	**ML7485**	**(3669)**
♦ SN7485	**Lansdale**	**ML7485**	**(3669)**
	Rochester	7485	
SN7486	**Lansdale**	**ML7486**	**(3669)**
		SL7486	
♦ SN7486	**Lansdale**	**ML7486**	**(3669)**
	Rochester	7486	
♦ SN7489	Rochester	7489	
SN7490	Lansdale	SL7490	
♦ SN7490	Lansdale	ML7490	
SN7491	Rochester	7491A	
♦ SN7491	**Lansdale**	**ML7491A**	**(3669)**
	Rochester	7491	
SN7492	Lansdale	SL7492	
♦ SN7492	Lansdale	ML7492	
	Rochester	7492	
SN7493	Lansdale	SL7493	
	Rochester	7493A	
			(Continued)
♦ SN7493	Lansdale	ML7493	
	Rochester	7493	
SN7494	Lansdale	SL7494	
♦ SN7494	**Lansdale**	**ML7494**	**(3669)**
SN7495	Lansdale	SL7495	
♦ SN7495	Lansdale	ML7495	
	Rochester	7495	
SN7496	Lansdale	SL7496	
♦ SN7496	**Lansdale**	**ML7496**	**(3669)**
	Rochester	7496	
SN75ALS056	National	DS3696	
SN75ALS176	National	DS36F95	
SN75C188	National	DS14C88	
SN75C189A	National	DS14C89A	
SN75064	Allegro Micro	ULN2064	
	Linfinity Micro	SG2064	
	SGS-Thomson	ULN2064	
SN75065	Allegro Micro	ULN2065	
	Linfinity Micro	SG2065	
	SGS-Thomson	ULN2065	
SN75066	Linfinity Micro	SG2066	
	SGS-Thomson	ULN2066	
SN75067	Linfinity Micro	SG2067	
	SGS-Thomson	ULN2067	
SN75068	Allegro Micro	ULN2068	
	Linfinity Micro	SG2068	
	SGS-Thomson	ULN2068	
SN75069	Allegro Micro	ULN2069	
	Linfinity Micro	SG2069	
	SGS-Thomson	ULN2069	
SN75074	Linfinity Micro	SG2074	
	SGS-Thomson	ULN2074	
SN75075	Linfinity Micro	SG2075	
	SGS-Thomson	ULN2075	
SN75107	Motorola	MC75107	
SN75107B	National	DS75107	
SN75108	Motorola	MC75108	
SN75108B	National	DS75108	
SN75110	Motorola	MC75S110	
	National	DS75110	
♦ SN75110	Rochester	75110	
SN75110A	National	DS75110A	
SN75113	National	DS75113	
SN75114	National	DS75114	
SN75115	National	DS75115	
♦ SN75118	Rochester	75118	
♦ SN75120	Rochester	75120	
SN75121	Motorola	MC3481	
	National	DS75121	
SN75122	Motorola	MC75125	
SN75123	National	DS75123	
SN75124	National	DS75124	
SN75125	Motorola	MC3481	
		MC75125	
SN75126	Motorola	MC3481	
SN75127	Motorola	MC75127	
SN75128	Motorola	MC75128	
	National	DS75128	
SN75129	Motorola	MC75129	
	National	DS75129	
♦ SN75140	Rochester	75140	
♦ SN75141	Rochester	75141	
♦ SN75142	Rochester	75142	
♦ SN75143	Rochester	75143	
SN75150	Motorola	MC1488	
	National	DS75150	
♦ SN75150	Rochester	75150	
SN751506	Krueger	751506	
SN751508	Krueger	751508	
SN751516	Krueger	751516	
SN751518	Krueger	751518	
♦ SN75152	Rochester	75152	
SN75154	Motorola	MC1489	
	National	DS75154	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ SN75154	Rochester	75154	
♦ SN75157	Rochester	75157	
SN75160	Motorola	MC3447	
	National	DS75160	
♦ SN75160	Rochester	75160	
SN75161	National	DS75161	
♦ SN75161	Rochester	75161	
SN75162	National	DS75162	
SN751701	Samsung	KS5789	
SN75172	Motorola	MC75172	
	National	DS96172	
SN75173	Motorola	SN75173	
	National	DS96173	
SN75174	Motorola	MC75174	
	National	DS96174	
SN75175	Motorola	SN75175	
	National	DS96175	
SN75176	National	DS3695	
		DS75176	
		DS75176B	
		DS96176	
♦ SN75176	Rochester	75176	
SN75177	National	µA96177	
		DS96177	
SN75177B	National	DS3697	
SN75182	National	DS8820	
		DS8820A	
SN75183	National	DS8830	
SN75186	LinearTech	LT1134	
SN75188	Linfinity Micro	SG75188	
	Motorola	MC1488	
	National	DS1488	
	SGS-Thomson	MC1488	
SN75189	Linfinity Micro	SG1468	
		SG75189	
	Motorola	MC1489	
	National	DS1489	
	SGS-Thomson	MC1489	
SN75189A	National	DS1489A	
♦ SN7520	Rochester	7520	
SN75207	Motorola	MC75107	
SN75208	Motorola	MC75108	
	National	DS75208	
♦ SN7522	Rochester	7522	
SN75234	Linfinity Micro	SG75234	
♦ SN75234	Rochester	75234	
♦ SN75236	Rochester	75326	
♦ SN75237	Rochester	75327	
SN7524	Linfinity Micro	SG7524	
♦ SN7524	Rochester	7524	
SN75251	Motorola	MC3471	
♦ SN75322	Rochester	75322	
SN75325	Linfinity Micro	SG75325	
	National	DS75325	
♦ SN75325	Rochester	75325	
SN75326	Linfinity Micro	SG75326	
SN75327	Linfinity Micro	SG75327	
♦ SN75357	Rochester	75357	
SN75361	National	DS75361	
♦ SN75363	Rochester	75363	
♦ SN75364	Rochester	75364	
SN75365	National	DS75365	
♦ SN75365	Rochester	75365	
SN75369	National	DS0026	
♦ SN75369	Rochester	75369	
♦ SN75426	Rochester	75426	
SN75430	Linfinity Micro	SG75430	
SN75431	Linfinity Micro	SG75431	
SN75432	Linfinity Micro	SG75432	
SN75433	Linfinity Micro	SG75433	
SN75434	Linfinity Micro	SG75434	
SN75435	**Harris**	**CA3242**	**(3638)**
	National	DS3658	
SN75436	National	DS3658	
SN75437	Allegro Micro	UDN2543	
	Harris	**CA3262**	**(3638)**
	National	DS3658	
SN75438	National	DS3658	
SN75440	Harris	CA3252	
	National	DS3669	
SN754410	Allegro Micro	UDN2993	
SN754411	Allegro Micro	UDN2993	
♦ SN75446	Rochester	75446	
SN75450	Linfinity Micro	SG75450	
	National	DS75450	
♦ SN75450	Rochester	75450	
SN75451	Linfinity Micro	SG75451	
	National	DS75451	
SN75452	Linfinity Micro	SG75452	
	National	DS75452	
SN75453	Linfinity Micro	SG75453	
	National	DS75453	
SN75454	Linfinity Micro	SG75454	
	National	DS75454	
SN75460	Linfinity Micro	SG75460	
SN75461	Linfinity Micro	SG75461	
	National	DS75461	
SN75462	Linfinity Micro	SG75462	
	National	DS75462	
SN75463	Linfinity Micro	SG75463	
	National	DS75463	
SN75464	Linfinity Micro	SG75464	
	National	DS75464	
SN75466	Motorola	MC1411	
SN75467	Motorola	MC1412	
SN75468	Allegro Micro	ULN2023	
	Motorola	MC1413	
SN75469	Allegro Micro	ULN2024	
♦ SN75469	Rochester	75469	
SN75470	Linfinity Micro	SG75470	
SN75471	Linfinity Micro	SG75471	
	National	DS3631	
♦ SN75471	Rochester	75471	
SN75472	Linfinity Micro	SG75472	
	National	DS3632	
♦ SN75472	Rochester	75472	
SN75473	Linfinity Micro	SG75473	
	National	DS3633	
♦ SN75473	Rochester	75473	
SN75474	Linfinity Micro	SG75474	
	National	DS3634	
♦ SN75474	Rochester	75474	
SN75475	Motorola	MC1427	
SN75477	National	DS3632	
SN75478	Allegro Micro	UDN5713	
♦ SN75478	Rochester	75478	
SN75480	National	DS8880	
SN75491	National	DS75491	
SN75492	National	DS75492	
SN75494	National	DS75494	
SN75512	Allegro Micro	UCN5811	
♦ SN75512	Rochester	75512	
SN75512A	Rochester	75512A	
SN75518	Allegro Micro	UCN5818	
	American Micro	S4535	
SN75605	Unitrode	UC2950	
SN76514	Motorola	MC1496	
SN76564	Motorola	MC13010	
SN76565	Motorola	MC13010	
SN76591	Motorola	MC1391	
SN76600	Motorola	MC1350	
SN76665	Motorola	MC13010	
SN95176B	National	DS16F95	
TA75555	Samsung	NE555	
TA76494	Motorola	TL494	
♦ TBP14SA10	Lansdale	HL7610	
♦ TBP14S10	Lansdale	HL7611	
TBP18SA030	Fujitsu	MB7111	
	Philips	82S23	
♦ TBP18SA46	Lansdale	HL7640	
TBP18S030	Fujitsu	MB7112	
	Philips	82S123	
♦ TBP18S030	Rochester	18S030	
♦ TBP18S42	Lansdale	HL7649	
♦ TBP18S46	Lansdale	HL7641	
TBP24SA10	Fujitsu	MB7113	
	Philips	82S126	
TBP24SA41	Fujitsu	MB7121	
	Philips	82S137	
♦ TBP24SA41	Lansdale	HL7642	
TBP24S10	Fujitsu	MB7114	
	Philips	82S129	
♦ TBP24S10	Lansdale	HL7611	
TBP24S41	Fujitsu	MB7122	
	Philips	82S137	
♦ TBP24S41	Lansdale	HL7643	
TBP24S81	Fujitsu	MB7128	
	Philips	82S185	
♦ TBP24S81	Lansdale	HL7685	
TBP28LA22	Fujitsu	MB7117	
	Philips	82S135	
♦ TBP28LA22	Rochester	28LA22	
TBP28L22	Fujitsu	MB7118	
	Philips	82S135	
♦ TBP28L22	Rochester	28L22	
TBP28L42	Philips	82S147	
TBP28L46	Philips	82S141	
TBP28L86	Philips	82S181	
♦ TBP28L86A	Rochester	28L86A	
TBP28SA42	Fujitsu	MB7123	
	Philips	82S147	
TBP28SA46	Philips	82S141	
TBP28SA86	Philips	82S181	
TBP28S166	Cypress	CY7C292	
	Fujitsu	MB71A38	
		MB7138	
	Philips	82S191	
♦ TBP28S166	Lansdale	HL76161	
TBP28S2708	Philips	82S181	
TBP28S42	Fujitsu	MB7124	
	Philips	82S147	
TBP28S46	Philips	82S141	
TBP28S86	Cypress	CY7C282	
	Fujitsu	MB7132	
	Philips	82S181	
♦ TBP28S86	Lansdale	HL7681	
TBP34L10	Philips	82S129	
TBP34L12	Philips	82S129	
TBP34L162	Philips	82HS195	
TBP34SA10	Philips	82S126	
TBP34SA12	Philips	82S126	
TBP34SA162	Philips	82HS195	
TBP34SA41	Philips	82S137	
TBP34S10	Philips	82S129	
TBP34S12	Philips	82S129	
TBP34S162	Philips	82HS195	
TBP34S41	Philips	82S137	
TBP34S42	Philips	82S147	
TBP38L165	Fujitsu	MB71A38	
		MB7138	
TBP38L166	Fujitsu	MB71A38	
		MB7138	
TBP38L22	Philips	82S135	
TBP38R165	Fujitsu	MB7238	
TBP38SA030	Fujitsu	MB7111	
	Philips	82S23	
TBP38SA032	Philips	82S23	
TBP38SA165	Philips	82S191	
TBP38SA166	Philips	82S191	
TBP38SA167	Philips	82S191	
TBP38SA22	Philips	82S135	
TBP38S030	Fujitsu	MB7112	
TBP38S032	Philips	82S123	
TBP38S165	Fujitsu	MB71A38	
		MB7138	
TBP38S166	Fujitsu	MB71A38	
		MB7138	
TBP38S167	Philips	82S191	
TBP38S22	Philips	82S135	
TBP38S85	Philips	82S185	
TBP38S86	Philips	82S181	
TCM1101	UMC	UM9151	
TCM5087	GEC Plessey	MV5087	
	UMC	UM95087	
TCM5089	GEC Plessey	MV5089	
	UMC	UM95089	
TCM5092	UMC	UM95088	
TC4136	Panasonic	AN6554	
TIBPAD16N8	Intel	85C508	
	Lattice	GAL16V8	
		GAL18V10	
TIBPAD16N8-7C	Philips	PHD16N8-5	
TIBPAD18N8	Intel	85C508	
TIBPALR19L8	Intel	85C220	
TIBPALR19R4	Intel	85C220	
TIBPALR19R6	Intel	85C220	
TIBPALR19R8	Intel	85C220	
TIBPAL16L8	AMD	AMPAL16L8	
		PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16H2	
		PAL16L2	
		PAL16L8	
	Cypress	CYPALC16L8	
	Intel	85C220	
		85C508	
	Lattice	GAL16V8	
	National	PAL10H8	
		PAL10L8	
		PAL12H6	
		PAL12L6	
		PAL14H4	
		PAL14L4	
		PAL16H2	
		PAL16L2	
		PAL16L8	
	Philips	PLHS16L8	
		PLUS16L8	
TIBPAL16L8-10C	Philips	PLUS16L8D	
TIBPAL16R4	AMD	AMPAL16R4	
		PAL16R4	
	Cypress	CYPALC16R4	
	Intel	85C220	
	Lattice	GAL16V8	
	National	PAL16R4	
	Philips	PLUS16R4	
TIBPAL16R4-10C	Philips	PLUS16R4D	
TIBPAL16R4-7C	Philips	PLUS16R4-7N	
TIBPAL16R6	AMD	AMPAL16R6	
		PAL16R6	
	Cypress	CYPALC16R6	
	Intel	85C220	
	Lattice	GAL16V8	
	National	PAL16R6	
	Philips	PLUS16R6	
		PLUS16R8	
TIBPAL16R6-10C	Philips	PLUS16R6D	
TIBPAL16R6-7C	Philips	PLUS16R6-7	
TIBPAL16R8	AMD	AMPAL16R8	
		PAL16R8	
	Cypress	CYPALC16R8	
	Intel	85C220	
	Lattice	GAL16V8	
	National	PAL16R8	
TIBPAL16R8-10C	Philips	PLUS16R8D	
TIBPAL16R8-7C	Philips	PLUS16R8-7	
TIBPAL20L10	Cypress	CYPLDC20G10	
TIBPAL20L10A	Cypress	PLDC20G10	
TIBPAL20L8	AMD	AMPAL20L8	
		PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
	Cypress	CYPLDC20G10	
	Intel	85C224	
		85C508	
	Lattice	GAL20V8	
	National	PAL14L8	
		PAL16L6	
		PAL18L4	
		PAL20L2	
		PAL20L8	
	Philips	PLUS20L8	
TIBPAL20L8-10C	Philips	PLUS20L8D	
TIBPAL20L8-7C	Philips	PLUS20L8-7	
TIBPAL20L8-7FN	Philips	PLUS20L8-7A	
TIBPAL20L8A	Cypress	PLDC20G10	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
TIBPAL20R4	AMD	AMPAL20R4	
		PAL20R4	
	Cypress	CYPLDC20G10	
	Intel	85C224	
	Lattice	GAL20V8	
	National	PAL20R4	
	Philips	PLUS20R4	
TIBPAL20R4-10C	Philips	PLUS20R4D	
TIBPAL20R4-7C	Philips	PLUS20R4-7	
TIBPAL20R4A	Cypress	PLDC20G10	
TIBPAL20R6	AMD	AMPAL20R6	
		PAL20R6	
	Cypress	CYPLDC20G10	
	Intel	85C224	
	Lattice	GAL20V8	
	National	PAL20R6	
	Philips	PLUS20R6	
TIBPAL20R6-10C	Philips	PLUS20R6D	
TIBPAL20R6-7C	Philips	PLUS20R6-7	
TIBPAL20R6A	Cypress	PLDC20G10	
TIBPAL20R8	AMD	AMPAL20R8	
		PAL20R8	
	Cypress	CYPLDC20G10	
	Intel	85C224	
	Lattice	GAL20V8	
	National	PAL20R8	
	Philips	PLUS20R8	
TIBPAL20R8-10C	Philips	PLUS20R8D	
TIBPAL20R8-10CN	Philips	PLUS20R8DN	
TIBPAL20R8-7C	Philips	PLUS20R8-7	
TIBPAL20R8A	Cypress	PLDC20G10	
TIBPAL20V10	AMD	PAL20X10	
	National	PAL20X10	
TIBPAL22VP10	AMD	AMPAL20L10	
	Intel	PLD22V10	
		85C22V10	
TIBPAL22V10	AMD	AMPAL20L10	
		AMPAL22V10	
		PAL12L10	
		PAL14L8	
		PAL20L10	
		PAL20X10	
		PAL20X4	
		PAL20X8	
		PAL22V10	
		PAL32VX10	
	ATMEL	AT22V10	
	Cypress	CYPALC22V10	
		PALC22V10	
	Intel	PLD22V10	
		85C22V10	
	Lattice	GAL22V10	
	National	PAL12L10	
		PAL14L8	
		PAL20L10	
		PAL20X10	
		PAL20X4	
		PAL20X8	
TIB82S105	Philips	PLS105	
		PLUS105	
TIB82S167	Philips	PLS167	
TICPAL1010	Waferscale	WS59510	
TICPAL16L8	Lattice	GAL16V8	
TICPAL16R4	Lattice	GAL16V8	
TICPAL16R6	Lattice	GAL16V8	
TICPAL16R8	Lattice	GAL16V8	
TICPAL18V8	**American Micro**	**PEEL18CV8**	**(3503)**
TICPAL22V10	AMD	PALCE22V10	
	ATMEL	ATF22V10	
		AT22V10	
	Lattice	GAL22V10	
	Philips	PLC20V8	
TID121	Allegro Micro	TND933	
TID122	Allegro Micro	TND940	
TID123	Allegro Micro	TND938	
TID124	Allegro Micro	TND939	
TIEPAL10H16	Cypress	CY10E301	
TIL02	Micropac	4N22	
TIL103	Micropac	4N24	
TIL111	Toshiba	TLP631	
TIL112	Toshiba	TLP631	
TIL113	Toshiba	TLP631	
TIL114	Toshiba	TLP631	
TIL115	Toshiba	TLP631	
TIL116	Toshiba	TLP631	
TIL117	Toshiba	TLP631	
TIL118	Toshiba	TLP632	
TIL119	Toshiba	TLP570	
TIL119A	Toshiba	TLP570	
TIL120	Micropac	3N243	
TIL121	Micropac	3N244	
TIL124	Toshiba	TLP631	
TIL125	Toshiba	TLP631	
TIL126	Toshiba	TLP631	
TIL153	Toshiba	TLP631	
TIL154	Toshiba	TLP631	
TIL155	Toshiba	TLP631	
TLC04	National	MF4	
TLC0820	AD	ADC82	
		AD7820	
		PM0820	
	Crystal	CS7280	
	MicroLinear	ML2261	
	MicroNet	**MN5100**	**(3690)**
		MN5101	**(3690)**
		MN5120	
		MN5130	**(3690)**
		MN5140	**(3690)**
	MicroPwr	MP0820	
	National	ADC0820	
TLC0820AC	MicroLinear	ML2261CC	
TLC0820BC	MicroLinear	ML2261BC	
TLC10	LinearTech	LTC1060	
	Maxim	MF10	
	National	MF10	
TLC1078	AD	OP290	
TLC1079	AD	OP490	
TLC1225	National	ADC1225	
TLC14	National	MF4	
		MF4-100	
TLC1541	National	ADC1001	
		ADC1005	
	TeledyneC	TSC8701	
		TSC8704	
TLC20	LinearTech	LTC1060	
	Maxim	MF10	
	National	MF10	
TLC2201	AD	OP97	
	Burr-Brown	OPA111	
TLC2202	Burr-Brown	OPA211	
	National	UMC662	
TLC25L2	AD	OP290	
TLC25L4	AD	OP490	
TLC25M2	AD	OP221	
TLC25M4	AD	OP421	
TLC251	AD	OP22	
	Harris	CA3440	
	Maxim	ICL7611	
		ICL7612	
TLC252	AD	OP221	
	Harris	CA5260	
	Maxim	ICL7621	
TLC254	AD	OP421	
	Harris	CA5470	
TLC2652	AD	OP177	
	Harris	ICL7652	
	LinearTech	LTC1052	
	Maxim	ICL7652	
TLC2654	AD	OP177	
	Harris	ICL7652	
	LinearTech	LTC1052	
	Maxim	ICL7652	
TLC27L1	**NJR**	**NJU7001**	**(3705)**
TLC27L2	AD	OP290	
	NJR	**NJU7002**	**(3705)**
	SGS-Thomson	TS27L2	
TLC27L4	AD	OP490	
	NJR	**NJU7004**	**(3705)**
	SGS-Thomson	TS27L4	
TLC27L7	AD	OP290	
TLC27L9	AD	OP490	
	Harris	ICL7641	
	Maxim	ICL7641	
TLC27M1	NJR	NJU7021	
TLC27M2	AD	OP221	
	Harris	CA5260	
	NJR	NJU7022	
	SGS-Thomson	TS27M2	
TLC27M4	AD	OP421	
	NJR	NJU7024	
	SGS-Thomson	TS27M4	
TLC27M7	AD	OP221	
TLC27M9	AD	OP421	
	Harris	ICL7642	
	Maxim	ICL7642	
TLC271	AdvLinear	ALD1701	
		ALD1702	
		ALD1703	
	AD	OP22	
	Harris	ICL7611	
		ICL7612	
		ICL7613	
	Maxim	ICL7611	
		ICL7612	
		ICL7613	
	NJR	NJU7031	
	SGS-Thomson	TS271	
TLC272	AD	OP290	
	Harris	CA5260	
		ICL7621	
	Maxim	ICL7621	
	NJR	NJU7032	
	Samsung	KS272	
	SGS-Thomson	TS272	
TLC274	AD	OP421	
		OP490	
	Harris	CA5470	
		ICL7641	
	Maxim	ICL7641	
	National	LMC660	
	NJR	NJU7034	
	Samsung	KS274	
	SGS-Thomson	TS274	
TLC277	AD	OP290	
TLC279	AD	OP490	
TLC339	AD	CMP04	
	National	LM2901	
		LM339	
		LP339	
	SGS-Thomson	TS339	
TLC352	LinearTech	LT1017	
		LT1018	
TLC3702	LinearTech	LT1017	
		LT1018	
	NJR	NJU7102A	
	SGS-Thomson	TS3702	
TLC3704	NJR	NJU7104A	
	SGS-Thomson	TS3704	
TLC372	SGS-Thomson	TS372	
TLC374	SGS-Thomson	TL374	
TLC392	LinearTech	LT1017	
		LT1018	
TLC393	National	LM393	
	SGS-Thomson	TS393	
TLC4016	Harris	CD4016	
	Motorola	MC54HC4016	
		MC74HC4016	
	National	MM54H4016	
		MM74HC4016	
TLC4066	Harris	CD4066	
	Motorola	MC54HC4066	
		MC74HC4066	
	National	MM54HC4066	
		MM74HC4066	
TLC532	Motorola	MC14442	
	National	TLC532	
	Philips	NE5034	
TLC533	Motorola	MC14442	
TLC540	Motorola	MC145040	
	National	ADC0811	
TLC541	Motorola	MC145040	
	National	ADC0811	
TLC542	Motorola	MC145041	
TLC546	Motorola	MC14444	
	National	ADC0819	
		ADC0830	
TLC549	GEC Plessey	ZN509	
	National	ADC0831	
	Philips	NE5036	
		NE5037	
TLC5502	Fujitsu	MB40578	
TLC555	Harris	ICM7555	
	Maxim	ICM7555	
	National	LMC555	
	Philips	ICM7555	
		NE555	
		SA555	
		SE555	
	Samsung	KS555	
TLC556	Harris	ICM7556	
	Philips	NE556	
		SA556	
		SE556	
	Samsung	KS556	
TLC5602	Fujitsu	MB40778	
	Harris	**HI1171**	**(3639)**
TLC628	MicroPwr	MP7628	
TLC7135	AD	ADCEK12	
	Harris	ICL7135	
	MicroPwr	MP7138	
	Motorola	MC14433	
	National	ADC3511	
		ADC3711	
	Siliconix	LD110	
		LD111	
		LD120	
		LD121	
		SI7135	
	TeledyneC	TSC14433	
		TSC7135	
TLC7520	MicroPwr	MP7520	
TLC7524	AD	AD7524	
		PM7524	
	GEC Plessey	ZN558	
	MicroPwr	MP7524	
TLC7528	AD	AD7528	
		PM7528	
	MicroPwr	MP7528	
TLC7533	AD	AD7520	
		AD7533	
		PM7533	
	MicroPwr	MP7533	
TLC7628	MicroPwr	MP7628	
TLE2021	AD	OP21	
TLE2022	AD	OP221	
TLE2024	AD	OP421	
TLE2027	AD	OP27	
	Harris	HA5127	
TLE2037	AD	OP37	
	Harris	HA5137	
TLE2061	Motorola	MC34181	
TLE2062	Motorola	MC34182	
TLE2064	Motorola	MC34184	
TLE2082A	AD	AD712	
TLE2141	Motorola	MC34071	
TLE2142	Motorola	MC34072	
TLP298	Unitrode	L298	
TL022	AD	OP221	
	Motorola	LM158	
		LM358	
	NJR	NJM022	
	Philips	NE532	
TL040	Linfinity Micro	SG040	
TL044	AD	OP421	
	Motorola	LM124	
		LM324	
TL061	Motorola	MC33181	
	National	LF441	
	SGS-Thomson	TL061	
TL062	Exar	XR062	
	Motorola	MC33182	
	National	LF442	
	NJR	**NJM062**	**(3704)**
	SGS-Thomson	TL062	
TL062JGB	Philips	TL0062MJ7B/C	
TL064	Motorola	MC33184	
	National	LF444	
	NJR	**NJM064**	**(3704)**
	SGS-Thomson	TL064	
TL071	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Motorola	MC34001	
		TL071	
	National	µA771	
		LF351	
		LF411	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TL071			(Cont'd)
	NEC	μPC801	
	SGS-Thomson	TL071	
TL071MJG	Motorola	TL071MJG	
	National	μA771BRM	
TL071MJGB	National	μA771BRMQB	
TL071MLB	National	μA771BHMQB	
TL072	AD	OP215	
	AnalogSys	MA336	
		MA372	
	Motorola	MC33282	
		MC34002	
	National	μA772	
		LF353	
		LF412	
	NJR	NJM072	
	Philips	NE5532	
	SGS-Thomson	TL072	
TL072MJG	Motorola	TL072MJG	
	National	μA772BRM	
TL072MJGB	National	μA772BRMQB	
	SGS-Thomson	TL072MJ7B/C	
TL072MLB	National	μA772BHMQB	
	SGS-Thomson	TL072MHB/C	
TL074	AnalogSys	MA374	
	Motorola	MC34004	
		TL074	
	National	μA774	
		LF347	
	NJR	**NJM074**	**(3704)**
	SGS-Thomson	TL074	
TL074MJ	National	TL074MJ	
TL074MJB	National	μA774BDMQB	
	SGS-Thomson	TL074MJ7B/C	
◆ TL080	Rochester	TL080	
TL0808	GEC Plessey	ZN437	
	National	ADC0808	
TL0809	GEC Plessey	ZN437	
	National	ADC0809	
TL081	AD	OP15	
	AnalogSys	MA332	
		MA333	
		MA362	
	Harris	CA081	
	Motorola	TL081	
	National	μA771	
		LF351	
		LF411	
		TL081	
	NEC	μPC801	
	Panasonic	AN1081	
	SGS-Thomson	TL081	
TL081MJG	Motorola	TL081MJG	
TL082	AD	OP215	
	AnalogSys	MA336	
		MA372	
	Burr-Brown	OPA2604	
	Harris	CA082	
	Motorola	MC33282	
	National	μA772	
		LF353	
		LF412	
		TL082	
	NJR	NJM082	
	Panasonic	AN1082	
	SGS-Thomson	TL082	
TL082MJG	Motorola	TL082MJG	
TL084	AnalogSys	MA374	
	Burr-Brown	OPA404	
	Harris	CA084	
	Motorola	MC33284	
	National	μA774	
		LF347	
	NJR	NJM084	
	Panasonic	AN1084	
	SGS-Thomson	TL084	
TL087	AD	OP15	
	National	LF411	
TL088	AD	OP15	
	National	LF411	
TL111	Linfinity Micro	SG111	
			(Continued)
TL117	Linfinity Micro	SG117	
	Unitrode	UC117	
TL136	AD	OP420	
	AnalogSys	MA374	
TL1431	Astec Semi	AS1431	
TL1525	Linfinity Micro	SG1525	
	Unitrode	UC1525	
TL1527	Linfinity Micro	SG1527	
	Unitrode	UC1527	
TL16C552	Startech	ST16C552	
TL170	Allegro Micro	UGN3130	
TL173	Allegro Micro	UGN3503	
TL182	AD	AD7512	
	Harris	DGM182	
	Siliconix	DG182	
TL185	Harris	DGM185	
		HI5045	
TL188	Harris	DGM188	
		HI5042	
	Siliconix	DG185	
TL191	Harris	DGM191	
		HI5043	
	Siliconix	DG191	
TL2525	Linfinity Micro	SG2525	
	Unitrode	UC2525	
TL2527	Linfinity Micro	SG2527	
	Unitrode	UC2527	
TL288	AD	OP215	
	National	LF412	
TL291	AnalogSys	MA332	
		MA362	
TL292	AnalogSys	MA372	
TL3019	Allegro Micro	UGN3019	
		UGS3019	
TL3020	Allegro Micro	UGN3020	
		UGS3020	
TL317	National	LM317	
TL321	AD	OP21	
TL322	AD	OP220	
		OP221	
TL34071	Motorola	MC34071	
TL34072	Motorola	MC34072	
TL3695	National	DS3695	
TL431	Astec Semi	TL431	
	ECI Semi	EC431	
	LinearTech	LT1431	
	Motorola	TL431	
	National	LM431	
	Samsung	KA431	
	Unitrode	TL431	
TL431A	Astec Semi	A431	
TL431MJG	Motorola	TL431MJG	
TL431MJGB	Motorola	431/BPAJC	
TL4558	Panasonic	AN6556	
TL4810	Allegro Micro	UCN5810	
		UCQ5810	
TL487	National	LM3915	
TL489	National	LM3914	
TL490	National	LM3914	
TL491	National	LM3914	
TL493	Linfinity Micro	UC493	
TL494	ECI Semi	EC494	
	Fujitsu	MB3759	
	Motorola	TL494	
	Unitrode	UC494	
TL494MJ	Motorola	TL494MJ	
TL495	Motorola	TL495	
	Unitrode	UC495	
TL497	Motorola	MC34063	
TL500	AD	ADCEK12	
	MicroPwr	MP7138	
	Motorola	MC1405	
		MC14433	
	National	ADC3511	
		ADC3711	
		ADD3501	
		ADD3701	
	Siliconix	LD120	
TL501	AD	ADCEK12	
	Harris	CA3162	
	MicroPwr	MP7138	
	Motorola	MC1405	
		MC14433	
			(Continued)
TL501			(Cont'd)
	National	ADC3511	
		ADC3711	
		ADD3501	
		ADD3701	
	Siliconix	LD111	
TL502	National	ADD3501	
		ADD3701	
TL503	AD	ADCEK12	
	Harris	CA3162	
	MicroPwr	MP7138	
	Motorola	MC14433	
	National	ADC3511	
		ADC3711	
	Siliconix	LD110	
		LD121	
TL505	Motorola	MC1405	
TL507	Fujitsu	MB4053	
	Motorola	MC14443	
		MC14447	
TL510	AD	CMP05	
◆ TL510	Rochester	TL510	
◆ TL514	Rochester	LM1414	
		TL514	
TL520	National	ADC0848	
TL521	National	ADC0848	
TL522	National	ADC0848	
TL530	National	ADC0830	
TL531	National	ADC0830	
TL5501	Fujitsu	MB40576	
TL5502	Fujitsu	MB40578	
TL5601	Fujitsu	MB40776	
TL5602	Fujitsu	MB40778	
TL5632	Fujitsu	MB40978	
TL5812	Allegro Micro	UCN5812	
		UCQ5812	
TL592	National	LM592	
	Philips	NE592	
TL594	Allegro Micro	ULN8194	
	TI	TL594	
	Unitrode	UC495	
TL595	Allegro Micro	ULN8195	
	Unitrode	UC495	
TL604	Harris	DGM182	
		DGM185	
	Siliconix	DG185	
		DG188	
		DG191	
TL610	Harris	DGM188	
		DGM191	
	Siliconix	DG182	
TL7702	SGS-Thomson	TL7702	
TL7705	SGS-Thomson	TL7705	
TL7709	SGS-Thomson	TL7709	
TL7712	SGS-Thomson	TL7712	
TL7715	SGS-Thomson	TL7715	
TL780	Motorola	TL780	
TL7805	Motorola	MC35063	
TMS1259	Mosel-Vitelic	V53C256	
TMS2114	AMD	AM91L14	
	Krueger	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
TMS211420	AMD	AM9114	
TMS2149	**Krueger**	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
TMS2516	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
TMS2532	**Krueger**	**2532-350**	**(3663)**
		2532-450	**(3663)**
TMS2564-45	Krueger	2564-450	
TMS27C010	AMD	AM27C010	
	Krueger	27C010	
	Toshiba	TC571000	
TMS27C010A	AMD	AM27C010	
	ATMEL	AT27C010	
	Catalyst Semi	CAT27010	
	Dense-Pac	DPV27C101	
	Fujitsu	MBM27C1000	
		MBM27C1001	
	Hitachi	HN27C101	
		HN27C301	
			(Continued)
TMS27C010A			(Cont'd)
	Intel	27C010	
	Mitsubishi	M5M27C100	
		M5M27C101	
		M5M27C102	
	Mosaic Semi	MLM8128	
	National	NMC27C010	
		NMC27C020	
	NEC	μPD27C1000	
	OKI	MCM271000	
	SGS-Thomson	M27C1011	
	Sharp	LH570001	
		LH571000	
	Toshiba	TC54100	
		TC571000	
	Waferscale	WS27C010	
TMS27C020	AMD	AM27C020	
		AM27C2048	
	Intel	27C020	
	Mitsubishi	M5M27C201	
		M5M27C202	
	National	NMC27020	
TMS27C040	AMD	AM27C040	
	Intel	27C040	
	Mitsubishi	M5M27C402	
	National	NMC27040	
	Toshiba	TC57400	
		TC574000	
TMS27C128	AMD	AM27C128	
		AM27C64	
	ATMEL	AT27C128	
	Cypress	CY7C251	
	Fujitsu	MBM27C128	
		MBM27128	
	Gennum	27C128	
	Hitachi	HN27128A	
		HN4827128G	
	Intel	27C128	
	Krueger	27C128-200	
		27C128-250	
	Microchip	27HC256	
	Mitsubishi	M5L27128	
		M5M27C128	
	National	NMC27CP128	
	NEC	μPD27128	
	OKI	MSM27C128	
		MSM27128	
	S-MOS	SPM27129C	
	SEEQ	27128	
	Sharp	LH57126	
		LH57127	
		LH57128	
	Toshiba	TMM27128	
	VLSI Tech	VT27C128	
	Waferscale	WS27C128	
		WS57C128F	
		WS57C251	
TMS27C191	SEEQ	36C16	
TMS27C210	Krueger	27C210	
	Toshiba	TC57H1024	
TMS27C210-200	Philips	27C210-20	
TMS27C210-200JL	Philips	27C210FA	
TMS27C210A	AMD	AM27C1024	
	ATMEL	AT27C1024	
	Catalyst Semi	CAT27C210	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	27C210	
	Microchip	27HC1616	
	National	NMC27C1024	
	NEC	μPD27C1000	
	OKI	MSM27C1024	
		MSM271024	
	SGS-Thomson	M27C1024	
	Toshiba	TC571024	
	Waferscale	WS27C210	
TMS27C240	AMD	AM27C04096	
		AM27C4096	
	Hitachi	HN27C4096	
	Toshiba	TC574096	
TMS27C256	AMD	AM27C256	
		AM27256	
	ATMEL	AT27C256	
		AT27256	
	Catalyst Semi	CAT27HC256	
	Cypress	CY7C271	
		CY7C274	
			(Continued)

◆ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page
TMS27C256	Cypress		(Cont'd)
		CY7C277	
		CY7C279	
	Fujitsu	MBM27C256	
		MBM27256	
	Gennum	27C256	
		27256	
	Hitachi	HN27C256	
		HN27256	
	Intel	27C256	
		27256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	Microchip	27C256	
	Mitsubishi	M5L27256	
		M5M27C256	
	Motorola	MCM67256	
		MCM67259	
	National	NMC27C256	
	NEC	µPD27256	
	OKI	MSM27C256	
		MSM27256	
	Philips	27C256	
	S-MOS	SPM27C256	
	SEEQ	27C256	
	SGS-Thomson	M27256A	
	Sharp	LH57254	
		LH57256	
	Toshiba	TC54256	
		TC57256	
		TMM27256	
	Waferscale	WS27C256	
		WS57C256F	
TMS27C291	Cypress	CY7C291	
	SEEQ	36C16	
	Waferscale	WS57C191	
TMS27C292	Cypress	CY7C292	
	Waferscale	WS57C291	
TMS27C49	Cypress	CY7C264	
♦ TMS27C49	Rochester	93Z667	
TMS27C510	AMD	AM27C512	
		AM27512	
	ATMEL	AT27C512	
	Catalyst Semi	CAT27512	
	Cypress	CY7C285	
		CY7C286	
		CY7C287	
		CY7C289	
	Fujitsu	MBM27C512	
	Gennum	27C512	
	Hitachi	HN27512	
	Intel	27C512	
	Mitsubishi	M5L27512	
	National	NMC27C512	
	NEC	µPD27C512	
	OKI	MSM27512	
	Toshiba	TC54512	
		TC57512	
		TMM27512	
TMS27C512	AMD	AM27C512	
		AM27512	
	ATMEL	AT27C512	
	Catalyst Semi	CAT27512	
	Cypress	CY7C285	
		CY7C286	
		CY7C287	
		CY7C289	
	Fujitsu	MBM27C512	
	Gennum	27C512	
	Hitachi	HN27512	
	Intel	27C512	
	Mitsubishi	M5L27512	
	National	NMC27C512	
	NEC	µPD27C512	
	OKI	MSM27512	
	Toshiba	TC27512	
		TC54512	
		TC57512	
		TMM27512	
TMS27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
TMS27C64-15	Philips	27C64-15	
TMS27PC010	Toshiba	TC541000	
TMS27PC010A	AMD	AM27C010	
	ATMEL	AT27C010	
	Catalyst Semi	CAT27010	
	Dense-Pac	DPV27C101	
	Fujitsu	MBM27C1000	
		MBM27C1001	
	Hitachi	HN27C101	
		HN27C301	
	Intel	27C010	
	Mitsubishi	M5M27C100	
		M5M27C101	
		M5M27C102	
	Mosaic Semi	MLM8128	
	National	NMC27C010	
		NMC27C020	
	NEC	µPD27C1000	
	OKI	MCM271000	
	SGS-Thomson	M27C1011	
	Sharp	LH570001	
		LH571000	
	Toshiba	TC54100	
		TC571000	
	Waferscale	WS27C010	
TMS27PC040	AMD	AM27C040	
	Intel	27C040	
	Mitsubishi	M5M27C402	
	National	NMC27040	
	Toshiba	TC57400	
TMS27PC128	AMD	AM27C128	
	ATMEL	AT27C128	
	Cypress	CY7C251	
	Fujitsu	MBM27C128	
		MBM27128	
	Gennum	27C128	
	Hitachi	HN27128A	
		HN4827128G	
	Intel	27C128	
	Microchip	27HC256	
	Mitsubishi	M5L27128	
		M5M27C128	
	National	NMC27CP128	
	NEC	µPD27128	
	OKI	MSM27C128	
		MSM27128	
	S-MOS	SPM27129C	
	SEEQ	27128	
	Sharp	LH57126	
		LH57127	
		LH57128	
	Toshiba	TMM27128	
	VLSI Tech	VT27C128	
	Waferscale	WS57C128F	
		WS57C251	
TMS27PC210	Toshiba	TC54H1024	
TMS27PC210A	AMD	AM27C1024	
	ATMEL	AT27C1024	
	Catalyst Semi	CAT27C210	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	27C210	
	Microchip	27HC1616	
	National	NMC27C1024	
	NEC	µPD27C1000	
	OKI	MSM27C1024	
		MSM271024	
	SGS-Thomson	M27C1024	
	Toshiba	TC571024	
	Waferscale	WS27C210	
TMS27PC240	AMD	AM27C04096	
	Hitachi	HN27C4096	
	Toshiba	TC544096	
TMS27PC256	AMD	AM27C256	
		AM27256	
	ATMEL	AT27C256	
		AT27256	
	Catalyst Semi	CAT27HC256	
	Cypress	CY7C271	
		CY7C274	
		CY7C277	
		CY7C279	
	Fujitsu	MBM27C256	
		MBM27256	
	Gennum	27C256	
		27256	
	Hitachi	HN27C256	
		HN27256	
			(Continued)
TMS27PC256			(Cont'd)
	Intel	27C256	
		27256	
	Microchip	27C256	
	Mitsubishi	M5L27256	
		M5M27C256	
	Motorola	MCM67256	
		MCM67259	
	National	NMC27C256	
	NEC	µPD27256	
	OKI	MSM27C256	
		MSM27256	
	S-MOS	SPM27C256	
	SEEQ	27C256	
	SGS-Thomson	M27256A	
	Sharp	LH57254	
		LH57256	
	Signetics	27C256	
	Toshiba	TC54256	
		TC57256	
		TMM27256	
	Waferscale	WS57C256F	
TMS27PC49	Waferscale	WS57C49	
TMS27PC510	AMD	AM27C512	
		AM27512	
	ATMEL	AT27C512	
	Catalyst Semi	CAT27512	
	Cypress	CY7C285	
		CY7C286	
		CY7C287	
		CY7C289	
	Fujitsu	MBM27C512	
	Gennum	27C512	
	Hitachi	HN27512	
	Intel	27C512	
	Mitsubishi	M5L27512	
	National	NMC27C512	
	NEC	µPD27C512	
	OKI	MSM27512	
	Toshiba	TC54512	
		TC57512	
		TMM27512	
TMS27PC512	AMD	AM27C512	
		AM27512	
	ATMEL	AT27C512	
	Catalyst Semi	CAT27512	
	Cypress	CY7C285	
		CY7C286	
		CY7C287	
		CY7C289	
	Fujitsu	MBM27C512	
	Gennum	27C512	
	Hitachi	HN27512	
	Intel	27C512	
	Mitsubishi	M5L27512	
	National	NMC27C512	
	NEC	µPD27C512	
	OKI	MSM27512	
	Toshiba	TC54512	
		TC57512	
		TMM27512	
TMS27P64	Catalyst Semi	CAT2764	
TMS27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
TMS2716	**Krueger**	**2716T-350**	**(3663)**
		2716T-450	**(3663)**
TMS2732A	**Krueger**	**2732A-250**	**(3663)**
		2732A-300	**(3663)**
		2732A-350	**(3663)**
		2732A-450	**(3663)**
TMS2764	Cypress	CY7C266	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	SEEQ	2764	
TMS278C49	Waferscale	WS57C49	
TMS28L166	Cypress	CY7C292	
TMS28L86	Cypress	CY7C282	
TMS29F010	AMD	AM28F010	
	Catalyst Semi	CAT28F010	
	Hitachi	HN29C101	
	Intel	28F010	
	Philips	48F010	
	SEEQ	28C010	
TMS29F256	AMD	AM28F256	
	Intel	28F256	
			(Continued)
TMS29F258	AMD	AM28F256	
	Intel	28F256	
TMS29F259	AMD	AM28F256	
	Intel	28F256	
TMS29F512	AMD	AM28F512	
	Intel	28F512	
	National	NMC48F512	
TMS320C601	Cypress	CY7C601	
TMS320C602	Cypress	CY7C602	
TMS320C604	Cypress	CY7C604	
TMS370	Hitachi	HD647180	
TMS38L165	Cypress	CY7C291	
TMS38L166	Cypress	CY7C292	
TMS38L85	Cypress	CY7C281	
TMS38R165	Cypress	CY7C245	
TMS38R85	Cypress	CY7C235	
TMS38S165	Cypress	CY7C291	
TMS38S85	Cypress	CY7C281	
TMS4C1024	Fujitsu	MB81C1000	
	GoldStar	GM71C1000	
	Hitachi	HM511000	
	Hyundai	HY51C1000	
		HY531000	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
		MT4C1025	
		MT4C1026	
	Mitsubishi	M5M4C1000	
	Mosaic Semi	MDM11000	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
		MCM511000A	
	NEC	µPD421000	
	OKI	MSM41000	
		MSM511000B	
	Panasonic	MN41C1000	
	Toshiba	TC511000	
		TC511000B	
	Vitelic	V56C100	
TMS4C1025	Dense-Pac	DPD1MM1K	
	Hitachi	HM511001	
	Hyundai	HY51C1001	
	Mitsubishi	M5M4C1001	
	Motorola	MCM511001	
		MCM511001A	
	NEC	µPD421001	
	NMB	AAA1M200	
	OKI	MSM41001	
		MSM511001B	
	Samsung	KM41C1001	
	Toshiba	TC511001	
		TC511001B	
TMS4C1026	Toshiba	TC511002	
TMS4C1027	Fujitsu	MB81C1002	
	Hitachi	HM511002	
	MicronSemi	MT4C1026	
	Mitsubishi	M5M4C1002	
	Motorola	MCM511002	
		MCM511002A	
	NEC	µPD421002	
	NMB	AAA1M100	
	OKI	MSM41002	
		MSM511002B	
	Samsung	KM41C1002	
	Siemens	HYB511002	
	Toshiba	TC511002	
TMS4C1050	OKI	MSM514221	
TMS4016	**Krueger**	**2128-100**	**(3663)**
		2128-120	**(3663)**
TMS4045	**Krueger**	**2114-200**	**(3663)**
TMS4045A	**Krueger**	**2114-150**	**(3663)**
		2114-450	**(3663)**
♦ TMS4064EC4	Peps	PEP4064EC4	
♦ TMS4064EC5	Peps	PEP4064EC5	
TMS4116	Krueger	4116-120	
		4116-150	
		4116-200	
♦ TMS4116	Rochester	4116	
TMS41256	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
♦ TMS4161	Rochester	4161	
TMS416100	Hitachi	HM511610	
	MicronSemi	MT4C16MX1	
TMS4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
TMS4164A	OKI	MSM3764A	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TMS416400	Hitachi	HM511640	
	MicronSemi	MT4C4M4X1	
TMS4245	AMD	AM9114	
TMS4256	GoldStar	GM71C256A	
		GM71256	
	Hyundai	HY53C256	
	Mosel-Vitelic	V53C256	
	NEC	μPD41256	
	OKI	MSM41256A	
♦ TMS4256EC4	Peps	PEP4256EC4	
♦ TMS4256EC5	Peps	PEP4256EC5	
♦ TMS4256FC1	Peps	PEP4256EM1	
TMS4257	OKI	MSM41257A	
♦ TMS4257	Rochester	4257	
TMS44C250	Fujitsu	MB81C4251	
		MB81C4253	
	Hitachi	HM534251	
		HM534252	
		HM534253	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M442256	
	Mosel-Vitelic	V52C4256	
	NEC	μPD42274	
	OKI	MSM514251	
		MSM514252	
	Samsung	KM42C4256	
	Toshiba	TC524256	
		TC524257	
TMS44C251	Fujitsu	MB81C4251	
		MB81C4253	
	Hitachi	HM534251	
		HM534252	
		HM534253	
	MicronSemi	MT4C4256	
		MT42C4256	
	Mitsubishi	M5M442256	
	NEC	μPD42273	
		μPD42274	
	OKI	MSM514251	
		MSM514252	
	Samsung	KM42C4256	
		KM424C257	
	Toshiba	TC524256	
		TC524257	
TMS44C256	AT&T	M441024	
	Fujitsu	MB81C4256	
	GoldStar	GM71C4256	
		GM71C4256A	
		GM71C7256	
	Hitachi	HM514256	
		HM514258	
	Hyundai	HY51C4256	
		HY534256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C4256	
		MT4C4258	
	Mitsubishi	M5M44C256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	Motorola	MCM514256	
		MCM514256A	
	NEC	μPD424256	
	NMB	AAA1M104	
	OKI	MSM414256	
		MSM514258	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	Sharp	LH64256	
		LH64270	
	Siemens	HYB514256	
	Toshiba	TC514256	
		TC514256B	
TMS44C257	MicronSemi	MT4C4258	
TMS44C260	MicronSemi	MT4C1664	
		MT4C4259	
TMS44C521	Mosel-Vitelic	V52C4258	
TMS44100	Dense-Pac	DPD4MM1K	
	Fujitsu	MB814100	
	Hitachi	HM514100	
	Hyundai	HY514100	
	MicronSemi	MT4C1004	
		MT4C1005	
		MT4C1006	
	Mitsubishi	M5M44100	
	Mosaic Semi	MDM14000	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
		MCM54100A	
			(Continued)
TMS44100			(Cont'd)
	NEC	μPD424100	
	NMB	AAA4M100	
	OKI	MSM514100	
	Panasonic	MN41C4000	
	Samsung	KM41C4000	
		KM44C1000	
	Siemens	HYB514100	
	Toshiba	TC514100	
TMS441000	MicronSemi	MT4C1004	
TMS441002	MicronSemi	MT4C1006	
TMS44101	Mitsubishi	M5M44101	
	Motorola	MCM54101	
		MCM54101A	
	NEC	μPD424101	
	OKI	MSM5144101	
TMS4416	Krueger	41416-100	
		41416-120	
		41416-150	
♦ TMS4416	Rochester	4416	
TMS44400	Fujitsu	MB814400	
	Hitachi	HM514400	
	Hyundai	HY514400	
	MicronSemi	MT4C4001	
		MT4C4003	
	Mitsubishi	M5M44400	
	Mosaic Semi	MDM41000	
	Mosel-Vitelic	V53C404	
	Motorola	MCMS14400	
		MCM54400	
		MCM54400A	
	NEC	μPD424400	
	NMB	AAA4M104	
	OKI	MSM514400	
	Panasonic	MN41C41000	
	Samsung	KM44C1000	
	Siemens	HYB514400	
	Toshiba	TC514400	
TMS444000	MicronSemi	MT4C4001	
TMS444002	MicronSemi	MT4C4003	
TMS44410	Fujitsu	MB814400	
	Hitachi	HM514400	
	MicronSemi	MT4C4001	
		MT4C4003	
	Mitsubishi	M5M44400	
	Mosaic Semi	MDM41000	
	Motorola	MCMS14400	
		MCM54410	
	NEC	μPD424400	
	NMB	AAA4M104	
	OKI	MSM514400	
	Panasonic	MN41C41000	
	Samsung	KM44C1000	
	Siemens	HYB514400	
	Toshiba	TC514400	
TMS4460	MicronSemi	MT4C4004	
TMS4461	GoldStar	GM53C261	
		GM53C461	
	Krueger	4461-100	
		4461-120	
		4461-150	
	Mosel-Vitelic	V53C261	
	Samsung	KM424C64	
TMS4464	GoldStar	GM71C464	
		GM71C464A	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mosel-Vitelic	V53C464	
	NEC	μPD41464	
♦ TMS4464	Rochester	4464	
TMS45160	Toshiba	TC514260B	
TMS45165	MicronSemi	MT4C16256	
		MT4C16257	
	Toshiba	TC514170B	
TMS4764	Hughes	H23C64	
		H23C65	
TMS48C121	Hitachi	HM538121	
		HM538122	
		HM538123	
	MicronSemi	MT42C8128	
	Mitsubishi	N5N482128	
	Mosel-Vitelic	V52C8128	
	NEC	μPD42275	
		μPD424400	
	Toshiba	TC528126A	
TMS5001	SMC	KR9600	
		KR9601	
		KR9602	
TMS6011	SMC	COM8017	
TMS61CD256	Cypress	CY7C197	
TMS62256	Toshiba	TC55257	
			(Continued)
TMS62456	NEC	μPD431004	
TMS6264	Toshiba	TC5563	
TMS62828	NEC	μPD431000	
	Toshiba	TC551001	
TMS64C256	Cypress	CY7C194	
TMS6708	MicronSemi	MT5C2564	
	Toshiba	TC55B464	
		TC55464	
TMS6709	Toshiba	TC55465	
TMS6787	Toshiba	TC5561	
		TC5562	
TMS6788	Toshiba	TC55B417	
		TC55416	
TMS6789	Toshiba	TC55417	
TMS68CE256	Cypress	CY7C198	
TMS7000	Hitachi	HD6301	
		HD647180	
TMS7489	Cypress	CY7C189	
TMS77211	Samsung	KS82C411	
TMS9927	SMC	CRT5037	
TMS9937	SMC	CRT5037	
TMX4C1024	GoldStar	GM71C1000	
TM024EAD9	Dense-Pac	DPD1MX9	
	Fujitsu	MB85235	
		MB85237	
		MB85265	
	Hitachi	HB56A19	
		HB56C19	
	MicronSemi	MT8C9024	
		MT8C9025	
		MT8C9026	
		MT9D19	
	Mitsubishi	MH1M09A	
	Motorola	MCM9L1000	
		MCM91000	
	Samsung	KMM591000	
	Siemens	HYM910005	
	Toshiba	THM91000	
TM024GAD8	Dense-Pac	DPD1MX8	
	Fujitsu	MB85230	
		MB85250	
		MB855231	
	Hitachi	HB56A181	
		HB56C18	
	MicronSemi	MT8C8024	
		MT8C8025	
		MT8C8026	
		MT8D18	
	Mitsubishi	MH1M08A	
	Motorola	MCM81000	
	NEC	MC421000A8	
	OKI	MSC2313A	
	Peps	PEP1MX8	
	Samsung	KMM581000	
	Toshiba	THM81000	
TM024GAD9	GoldStar	GMM791000S	
	NEC	MC421000A9	
	Peps	PEP1MX9	
	Samsung	KMM591000	
TM024HAC4	Peps	PEP4MX1	
TM124BBK32	MicronSemi	MT8D132	
	Motorola	MCM32100	
TM124EAD9	MicronSemi	MT3D19	
TM124EAD9B	Dense-Pac	DPD1MX8	
	Fujitsu	MB85230	
		MB85250	
		MB855231	
	Hitachi	HB56A181	
		HB56C18	
	MicronSemi	MT8C8024	
		MT8C8025	
		MT8C8026	
	Mitsubishi	MH1M08A	
	Motorola	MCM81000	
	NEC	MC421000A9	
	OKI	MSC2312	
	Samsung	KMM581000	
	Toshiba	THM81000	
TM124EAD9C	Dense-Pac	DPD1MX9	
	Fujitsu	MB85235	
		MB85237	
		MB85265	
	Hitachi	HB56A19	
		HB56C19	
	MicronSemi	MT8C9024	
		MT8C9025	
		MT8C9026	
	Mitsubishi	MH1M09A	
	Motorola	MCM9L1000	
	NEC	MC421000A9	
	OKI	MSC2312	
	Samsung	KMM591000	
			(Continued)
TM124EAD9C			(Cont'd)
	Siemens	HYM910005	
	Toshiba	THM91000	
TM124GU8A	Dense-Pac	DPD1MX8	
	Fujitsu	MB85230	
		MB85250	
		MB855231	
	Hitachi	HB56A181	
		HB56C18	
	MicronSemi	MT2D18	
		MT8C8024	
		MT8C8025	
		MT8C8026	
	Mitsubishi	MH1M08A	
	Motorola	MCM81000	
	NEC	MC421000A8	
	OKI	MSC2313A	
	Samsung	KMM581000	
	Toshiba	THM81000	
TM124MBK35			
	Motorola	MCM36100	
TM124MBK36			
	Motorola	MCM36100	
TM124MBK36A			
	Hitachi	HB56D136B	
	NEC	MC421000A36	
TM124MBK36B			
	Hitachi	HB56D136B	
	NEC	MC421000A36	
TM248NBK36	MicronSemi	MT24D236	
TM256BBK32	Motorola	MCM32256	
TM256BK36B	Hitachi	HB56D25636	
	MicronSemi	MT8C36256	
	NEC	MC424256A36	
	OKI	MSC2320A	
	Samsung	KMM36256	
	Toshiba	THM3625600A	
	Vitelic	VM55C104K36	
TM256GU9	Fujitsu	MB85240	
	Hitachi	HB561003	
		HB561409	
	MicronSemi	MT8C9259	
		MT9259	
TM256KBK36	Motorola	MCM36256	
TM4100EBD9	Dense-Pac	DPD4MX9	
	Hitachi	HB56A49A	
	MicronSemi	MT9D49	
	Motorola	MCM94000	
	NEC	MC424100A9	
	OKI	MSC2340	
	Siemens	HYM940005	
TM4100GBD8	Dense-Pac	DPD4MX8	
	Hitachi	HB56A48A	
	MicronSemi	MT8D48	
	Motorola	MCM84000	
♦ TM4164EL9	Peps	PEP4064EL9	
TM4256-8	Mosel-Vitelic	V256J8	
	Motorola	MCM84256	
TM4256-9	Mosel-Vitelic	V256J9	
	Motorola	MCM94256	
♦ TM4256FL8	Peps	PEP4256EL8	
♦ TM4256FL9	Peps	PEP4256EL9	
TM4256GU8	Samsung	KMM58256	
	Toshiba	THM82500	
♦ TM4256GU8	Peps	PEP4256EL8	
TM4256GU9	Samsung	KMM59256	
♦ TM4256GU9	Peps	PEP4256EL9	
♦ TM4256GV8	Peps	PEP4256EL8-LP	
♦ TM4256GV9	Peps	PEP4256EL9-LP	
TM42566U9	Toshiba	THM92500	
TM512CBK32	Motorola	MCM32512	
TM512LBK36	Motorola	MCM36512	
TM512LBK36B			
	Hitachi	HB56D51236	
	MicronSemi	MT8C36512	
	NEC	MC424512A36	
	OKI	MSC2321A	
	Samsung	KMM36512	
	Toshiba	THM365120AS	
	Vitelic	VM55C1042K36	
TM512LBK36C			
	Hitachi	HB56D51236	
	MicronSemi	MT8C36512	
	NEC	MC424512A36	
	OKI	MSC2321A	
	Samsung	KMM36512	
	Toshiba	THM365120AS	
	Vitelic	VM55C1042K36	
TM524256	MicronSemi	MT42C4256	
TM62457	MicronSemi	MT5C1005	
TM6707	MicronSemi	MT5C2561	
TM6716	MicronSemi	MT5C1608	
TM6787	MicronSemi	MT5C6401	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Texas Instruments (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TM6788	MicronSemi	MT5C6404	
TM6789	MicronSemi	MT5C6405	
TPC1010	Actel	ACT1010	
TPC1020	Actel	ACT1020	
TPIC2801	**Harris**	**CA3282**	**(3638)**
TP3054	Harris	CD22354	
TP3057	Harris	CD22357	
TP4001	GoldStar	GD4001	
TP4002	GoldStar	GD4002	
TP4008	GoldStar	GD4008	
TP4011	GoldStar	GD4011	
TP4012	GoldStar	GD4012	
TP4013	GoldStar	GD4013	
TP4014	GoldStar	GD4014	
TP4015	GoldStar	GD4015	
TP4016	GoldStar	GD4016	
TP4018	GoldStar	GD4018	
TP4019	GoldStar	GD4019	
TP4020	GoldStar	GD4020	
TP4021	GoldStar	GD4021	
TP4022	GoldStar	GD4022	
TP4023	GoldStar	GD4023	
TP4024	GoldStar	GD4024	
TP4025	GoldStar	GD4025	
TP4027	GoldStar	GD4027	
TP4028	GoldStar	GD4028	
TP4029	GoldStar	GD4029	
TP4030	GoldStar	GD4030	
TP4035	GoldStar	GD4035	
TP4040	GoldStar	GD4040	
TP4041	GoldStar	GD4041	
TP4042	GoldStar	GD4042	
TP4043	GoldStar	GD4043	
TP4044	GoldStar	GD4044	
TP4047	GoldStar	GD4047	
TP4049	GoldStar	GD4049	
TP4050	GoldStar	GD4050	
TP4051	GoldStar	GD4051	
TP4052	GoldStar	GD4052	
TP4053	GoldStar	GD4053	
TP4066	GoldStar	GD4066	
TP4068	GoldStar	GD4068	
TP4069	GoldStar	GD4069	
TP4071	GoldStar	GD4071	
TP4075	GoldStar	GD4075	
TP4078	GoldStar	GD4078	
TP4081	GoldStar	GD4081	
TP4360	GoldStar	GD40160	
TP4361	GoldStar	GD40161	
TP4363	GoldStar	GD40163	
TP4511	GoldStar	GD4511	
TP4512	GoldStar	GD4512	
TP4518	GoldStar	GD4518	
TP4520	GoldStar	GD4520	
TP4522	GoldStar	GD4522	
TP4526	GoldStar	GD4526	
TP4531	GoldStar	GD4531	
TP4539	GoldStar	GD4539	
TP4582	GoldStar	GD4582	
UA2240	National	LM2240	
UA723MFKB	Linfinity Micro	SG723L/883B	
	National	µA723LMQB	
		UA723LMQB	
UA723MJ	Linfinity Micro	SG723J	
	National	µA723DM	
		LM723J	
UA723MJB	Linfinity Micro	SG723J/883B	
	National	µA723DMQB	
		LM723J/883	
	SGS-Thomson	UA723MJ7B/C	
UA723MUB	Linfinity Micro	SG723F/883B	
UA733MJ	National	µA733DM	
	Philips	UA733F	
UA733MJB	National	µA733DMQB	
	Philips	UA733/BCA	
UA733MUB	National	µA733FMQB	
UA741MFKB	Linfinity Micro	SG741L/883B	
UA741MJ	National	µA741DM	
UA741MJB	Linfinity Micro	SG741Y	
	National	µA741DMQB	
		LM751J-14/883	
	Raytheon	RM741DC/883B	
UA741MJG	Linfinity Micro	SG741Y	
	National	µA741RM	
		LM741J	
UA741MJGB	Linfinity Micro	SG741Y/883B	
	National	µA741RMQB	
		LM741J/883	
	Raytheon	RM741DE/883B	
UA741MLB	Linfinity Micro	SG741T/883B	
	National	µA741HMQB	
		LM741H/883	
	Raytheon	RM741T/883B	
UA747MJ	National	µA747DM	
		LM747J	
UA747MJB	National	µA747DMQB	
		LM747J/883	
	Raytheon	RM747DC/883B	
UA747MWB	National	µA747FMQB	
UA78M05MFKB	Linfinity Micro	SG140-05L/883B	
UA78M12MFKB	Linfinity Micro	SG140-12L/883B	
UA79M05MFKB	Linfinity Micro	SG120-05L/883B	
UA79M12MFKB	Linfinity Micro	SG120-05/883B	
UCN4810	Allegro Micro	UCN5810	
UCN4810A	American Micro	S4534	
UC2842	Unitrode	UC2842	
UC2843	Unitrode	UC2843	
UC2844	Unitrode	UC2844	
UC2845	Unitrode	UC2845	
UC2846	Unitrode	UC2846	
UC2847	Unitrode	UC2847	
UC3527	LinearTech	SG3527	
UC384	Astec Semi	UC384	
UC3842	Astec Semi	UC3842A	
	Linfinity Micro	SG3842	
	Unitrode	UC3842	
UC3843	Astec Semi	UC3843A	
	Linfinity Micro	SG3843	
	Unitrode	UC3843	
UC3844	Astec Semi	UC3844A	
	Linfinity Micro	SG3844	
	Unitrode	UC3844	
UC3845	Astec Semi	UC3845A	
	Linfinity Micro	SG3845	
	Unitrode	UC3845	
UC3846	LinearTech	UC3846	
	Unitrode	UC3846	
UC3847	LinearTech	UC3847	
	Unitrode	UC3847	
UDN5713	Allegro Micro	UDN5713	
ULN2001	Allegro Micro	ULN2001	
	SGS-Thomson	ULN2001	
		ULQ2001	
ULN2002	SGS-Thomson	ULN2002	
		ULQ2002	
ULN2003	Allegro Micro	ULN2003	
	SGS-Thomson	ULN2003	
		ULQ2003	
ULN2004	Allegro Micro	ULN2004	
	SGS-Thomson	ULN2004	
		ULQ2004	
ULN2064	Allegro Micro	ULN2064	
	SGS-Thomson	ULN2064	
ULN2065	Allegro Micro	ULN2065	
	SGS-Thomson	ULN2065	
ULN2066	SGS-Thomson	ULN2066	
ULN2067	SGS-Thomson	ULN2067	
ULN2068	Allegro Micro	ULN2068	
	Motorola	ULN2068	
	SGS-Thomson	ULN2068	
ULN2069	Allegro Micro	ULN2069	
	SGS-Thomson	ULN2069	
ULN2074	SGS-Thomson	ULN2074	
ULN2075	SGS-Thomson	ULN2075	
ULN2803	SGS-Thomson	ULN2803	
ULN2804	SGS-Thomson	ULN2804	
UL4810	American Micro	S4534	
VL16C452	Startech	ST16C452	
VL16C550	Startech	ST16C550	
2101	Hughes	H1822	
38S165	Waferscale	WS57C191	
		WS57C291	
4N22	Micropac	4N22	
4N22A	Micropac	4N22A	
4N23A	Micropac	4N23A	
4N24	Micropac	4N24	
4N24A	Micropac	4N24A	
4N25	Toshiba	4N25	
4N26	Toshiba	4N26	
4N27	Toshiba	4N27	
4N28	Toshiba	4N28	
4N35	Toshiba	4N35	
4N36	Toshiba	4N36	
4N37	Toshiba	4N37	
4N47	Micropac	4N47	
4N48	Micropac	4N48	
4N49	Micropac	4N49	
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54ACT11004	TI	SN54ACT11004	
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54ACT11192	TI	54ACT11193	
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	National	54ACT112	
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54ACT11241	TI	SN54ACT11241	
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54ACT11245	TI	54ACT11251	
54ACT11251	TI	54ACT11245	
54ACT11253	TI	SN54ACT11253	
54ACT11257	TI	SN54ACT11257	
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54ACT11374	TI	SN54ACT11374	
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♦ 54ACT11470	TI	54ACT11379	
♦ 54ACT11471	TI	54ACT11478	
54ACT11520	TI	SN54ACT11520	
54ACT11521	TI	SN54ACT11521	
54ACT11533	TI	SN54ACT11533	
54ACT11534	TI	SN54ACT11534	
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54ACT11623	TI	SN54ACT11640	
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54ACT11640	TI	SN54ACT11640	
		54ACT11623	
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54ACT11657	TI	54ACT11652	
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54ACT11881	TI	54ACT11874	
54ACT11882	National	54ACT125	
54ACT16240	TI	54ACT16241	
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54ACT16825	TI	54ACT16826	
54ACT16826	TI	54ACT16825	
54ACT16827	TI	54ACT16828	
54ACT16828	TI	54ACT16827	
54ACT16841	TI	54ACT16842	
54ACT16842	TI	54ACT16841	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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54ACT16843	TI	54ACT16844	
54ACT16844	TI	54ACT16843	
54ACT16861	TI	54ACT16862	
54ACT16862	TI	54ACT16861	
54ACT16863	TI	54ACT16864	
54ACT16864	TI	54ACT16863	
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	TI	SN54AC11000	
54AC11002	TI	SN54AC11002	
54AC11004	TI	SN54AC11004	
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54AC11011	TI	SN54AC11011	
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54AC11021	TI	SN54AC11021	
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		54AC11086	
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	National	54AC112	
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		54AC11353	
54AC11374	TI	SN54AC11374	
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54AC16843	National	54AC169	
54ALS234	IDT	IDT72403	
54ALS235	IDT	IDT72413	
54ALS236	IDT	IDT72401	
♦ 54ALS812	Rochester	54ALS812	
♦ 54ALS995	Rochester	54ALS995	
♦ 54LS441	Rochester	54LS441	
♦ 54L193	Rochester	54L193	
♦ 54L93	Rochester	54L93	
♦ 54L95	Rochester	54L95	
♦ 54L96	Rochester	54L96	
♦ 54L99	Rochester	54L99	
♦ 54S168	Rochester	54S168	
♦ 54S226	Rochester	54S226	
♦ 54S281	Rochester	54S281	
♦ 54100	Rochester	54100	
♦ 54105	Rochester	54105	
♦ 54148	Rochester	54148	
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♦ 54153	Rochester	54153	
♦ 54154	Rochester	54154	
54164	Lansdale	SL54164	
♦ 54181	Rochester	7181	
♦ 54368	Rochester	54368	
5483	Rochester	5483	
74ACT11000	Motorola	MC74ACT11	
74ACT11109	National	74ACT1110	
74ACT11151	Philips	74ACT11151	
74ACT11323	Motorola	MC74ACT113	
74ACT11476	TI	74ACT11477	
74ACT11477	TI	74ACT11476	
74ACT11478	TI	74ACT11520	
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74ACT11988	TI	74ACT11987	
74ACT16240	Motorola	MC74ACT162	
74ACT16241	TI	74ACT16244	
74ACT16244	TI	74ACT16241	
74ACT16245	Harris	CD74ACT163	
	Motorola	MC74ACT163	
	National	74ACT163	
	Toshiba	**TC74ACT163**	**(3836)**
74ACT16373	TI	74ACT16374	
74ACT16374	TI	74ACT16373	
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74ACT7202	Samsung	KM75C02	
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74AC11286	Philips	74AC11286	
74AC11299	Philips	74AC11299	
74AC11323	Motorola	MC74AC113	
	Philips	74AC11323	
74AC11352	Philips	74AC11352	
74AC11353	Philips	74AC11353	
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74AC11475	Philips	74AC11475	
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74AC11802	Philips	74AC11802	
74AC11810	Philips	74AC11810	
74AC11818	Philips	74AC11818	

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♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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74AC11819	Philips	74AC11819	
74AC11821	Philips	74AC11821	
74AC11822	Philips	74AC11822	
74AC11823	Philips	74AC11823	
74AC11824	Philips	74AC11824	
74AC11825	Philips	74AC11825	
74AC11826	Philips	74AC11826	
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74AC11828	TI	74AC11833	
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74AC11988	TI	74AC11987	
74AC16240	TI	74AC16241	
74AC16241	TI	74AC16240	
74AC16244	TI	74AC16245	
74AC16245	TI	74AC16244	
74AC16373	TI	74AC16374	
74AC16374	TI	74AC16373	
74AC16533	TI	74AC16534	
74AC16534	TI	74AC16533	
74AC16540	TI	74AC16541	
74AC16541	TI	74AC16540	
74AC16620	**Toshiba**	**TC74AC166**	**(3836)**
74AC16623	TI	74AC16640	
74AC16640	TI	74AC16623	
74AC16646	TI	74AC16648	
74AC16648	TI	74AC16646	
74AC16651	TI	74AC16652	
74AC16652	TI	74AC16651	
74AC16657	TI	74AC16821	
74AC16821	TI	74AC16657	
74AC16823	TI	74AC16825	
74AC16825	TI	74AC16823	
74AC16841	TI	74AC16843	
74AC16843	TI	74AC16841	
74ALS234	IDT	IDT72403	
74ALS235	IDT	IDT72413	
74ALS236	IDT	IDT72401	
◆ 74148	Rochester	8618	
◆ 74181	Rochester	8181	
◆ 74192	Rochester	74192	
◆ 7438	Rochester	7438	
◆ 7448	Lansdale	SL8T05	
◆ 75117	Rochester	75117	

Thaler

Manufacturer Device	Replacement Source	Device	IC Master Page
VRE100	AD	AD2700	
		AD2710	
	Maxim	AD2700	
		AD2710	
	Sipex	AD2700	
VRE101	AD	AD2701	
	Maxim	AD2701	
	Sipex	HS2701	
VRE102	AD	AD2702	
	Sipex	HS2702	
VRE104	Crystal	CS3902	
VRE200	Crystal	CS3901	

Thomson Components

Manufacturer Device	Replacement Source	Device	IC Master Page
EF6800	Motorola	MC6800	
EF6802	Motorola	MC6802	
EF6803	Motorola	MC6802	
EF6809	Motorola	MC6809	
EF6810	Motorola	MC6810	
EF6821	Motorola	MC6821	
EF6840	Motorola	MC6840	
EF6850	Motorola	MC6850	
EF6852	Motorola	MC6852	
EF6854	Motorola	MC6854	
TS2901	AMD	AM2901	
TS2909	AMD	AM2909	
TS2911	AMD	AM2911	
TS2914	AMD	AM2914	
TS2915	AMD	AM2915	
TS2917	AMD	AM2917	
TS68C000	Motorola	MC68HC000	
TS68000	Motorola	MC68000	
TS68020	Motorola	MC68020	
TS68881	Motorola	MC68881	
TS68882	Motorola	MC68882	

Toshiba America Electronic Components

Manufacturer Device	Replacement Source	Device	IC Master Page
CNY17-2	Motorola	CNY17-2	
CNY17-3	Motorola	CNY17-3	
CNY17-4	Motorola	CNY17-4	
H11L1	Motorola	H11L1	
H11L3	Motorola	H11L2	
M5L8259A	Siemens	SAB8259A	
M5L8284	Siemens	SAB8284	
M5L8288	Siemens	SAB8288A	
PIC7517	Linfinity		
	Micro	SM656	
	Unitrode	PIC656	
R4000	Siemens	SABR4000	
TA5559	Harris	HA5112	
TA7179	Motorola	MC1468	
TA7502	Motorola	MC1709	
	Unitrode	PIC7502	
TA7504	Motorola	MC1741	
	National	LM741	
	NJR	NJM741	
	Panasonic	AN6573	
	SGS-Thomson	µA741	
	Unitrode	PIC7504	
TA7506	Motorola	LM301	
	SGS-Thomson	LM301	
TA75061	National	LF441	
	SGS-Thomson	TL061	
TA75062	**NJR**	**NJM062**	**(3704)**
	SGS-Thomson	TL062	
TA75064	**NJR**	**NJM064**	**(3704)**
	SGS-Thomson	TL064	
TA75071	Motorola	MC34001	
	SGS-Thomson	TL071	
TA75072	Motorola	MC34002	
	NJR	NJM072	
	SGS-Thomson	TL072	
TA75074	Motorola	MC34004	
	NJR	**NJM074**	**(3704)**
	SGS-Thomson	TL074	
TA7508	**NJR**	**NJM2058**	**(3704)**
TA75324	NJR	NJM324	
TA75339	Motorola	LM339	
	National	LM2901	
		LM339	
	NJR	NJM2901	
	SGS-Thomson	LM2901	
TA75358	Motorola	LM358	
	National	LM2904	
		LM358	
	NJR	**NJM2904**	**(3704)**
	Panasonic	AN1358	
		AN6561	
		AN6562	
	SGS-Thomson	LM2904	
		LM358	
TA7539	Panasonic	AN6913	
TA75393	Harris	CA3290	
	Motorola	LM393	
	National	LM2903	
		LM393	
	NJR	NJM2903	
	Panasonic	AN1393	
		AN6914	
	SGS-Thomson	LM2903	
TA7540	**NJR**	**NJM4250**	**(3704)**
	SGS-Thomson	µA776	
TA75403	NJR	NJM3403	
TA75458	Motorola	MC1458	
	National	LM1558	
	NJR	NJM1458	
	Panasonic	AN1458	
		AN6571	
		AN6572	
	SGS-Thomson	MC1458	
TA7555	Harris	HA5102	
	Motorola	MC1455	
	National	LM555	
	SGS-Thomson	NE555	
TA75557	Harris	HA5102	
TA75558	**NJR**	**NJM4558**	**(3704)**
	Panasonic	AN4558	
		AN6551	
		AN6552	
	SGS-Thomson	MC4558	
TA75559	Harris	HA5112	
	NJR	NJM4559	
	Panasonic	AN6555	
		AN6556	
TA75902	Motorola	LM324	
	National	LM2902	
	NJR	NJM2902	
	Panasonic	AN1324	
		AN6564	
	SGS-Thomson	LM2902	
TA7630	GoldStar	GL3230	
TA76494	Unitrode	UC494	
TA76524	Harris	CA3524	
TA78L005	Motorola	MC78L05	
	Panasonic	AN78L05	
	TI	µA78L05	
TA78L006	Panasonic	AN78L06	
	TI	µA78L06	
TA78L007	Panasonic	AN78L07	
TA78L008	Motorola	MC78L08	
	Panasonic	AN78L08	
	TI	µA78L08	
TA78L009	Panasonic	AN78L09	
	TI	µA78L09	
TA78L010	Panasonic	AN78L10	
	TI	µA78L10	
TA78L012	Motorola	MC78L12	
	Panasonic	AN78L12	
	TI	µA78L12	
TA78L015	Motorola	MC78L15	
	Panasonic	AN78L15	
	TI	µA78L15	
TA78L018	Motorola	MC78L18	
	Panasonic	AN78L18	
TA78L020	Panasonic	AN78L20	
TA78L024	Panasonic	AN78L24	
TA78L24	Motorola	MC78L24	
TA78M05	Motorola	MC78M05	
TA78M06	Motorola	MC78M06	
TA78M08	Motorola	MC78M08	
TA78M12	Motorola	MC78M12	
TA78M18	Motorola	MC78M18	
TA78M20	Motorola	MC78M20	
TA78M24	Motorola	MC78M24	
TA79L005	Motorola	MC79L05	
	Panasonic	AN79L05	
TA79L006	Panasonic	AN79L06	
TA79L008	Panasonic	AN79L08	
TA79L009	Panasonic	AN79L09	
TA79L010	Panasonic	AN79L10	
TA79L012	Motorola	MC79L12	
	Panasonic	AN79L12	
TA79L015	Motorola	MC79L15	
	Panasonic	AN79L15	
TA79L018	Motorola	MC79L18	
	Panasonic	AN79L18	
TA79L024	Panasonic	AN79L24	
TA79005	Motorola	MC7905	
TA79006	Motorola	MC7906	
TA79008	Motorola	MC7908	
TA79012	Motorola	MC7912	
TA79015	Motorola	MC7915	
TA79018	Motorola	MC7918	
TA79024	Motorola	MC7924	
TA8012	Motorola	MC7812	
TA8018	Motorola	MC7818	
TC2018	UMC	UM6116	
TC2068	UMC	UM6168	
TC2078	Cypress	CY7C170A	
TC2088	Cypress	CY7C186	
TC27C256	AMD	AM27C256	
TC27512	AMD	TC57512	
	Fujitsu	MBM27C512	
	Mitsubishi	M5M27C512A	
	NEC	µPD27C512	
	TI	TMS27C512	
TC4001	GoldStar	GD4001	
TC4002	GoldStar	GD4002	
TC4006	GoldStar	GD4006	
TC4007	GoldStar	GD4007	
TC4008	GoldStar	GD4008	
TC4011	GoldStar	GD4011	
TC4012	GoldStar	GD4012	
TC4013	GoldStar	GD4013	
TC4014	GoldStar	GD4014	
TC4015	GoldStar	GD4015	
TC4016	GoldStar	GD4016	
	Unitrode	PIC7516	
TC40160	GoldStar	GD40160	
TC40161	GoldStar	GD40161	
TC40163	GoldStar	GD40163	
TC4017	GoldStar	GD4017	
TC40174	GoldStar	GD40174	
TC40175	GoldStar	GD40175	
TC4018	GoldStar	GD4018	
TC4019	GoldStar	GD4019	
TC40192	GoldStar	GD40192	
TC40193	GoldStar	GD40139	
TC40194	GoldStar	GD40194	
TC4020	GoldStar	GD4020	
TC4021	GoldStar	GD4021	
TC4022	GoldStar	GD4022	
TC4023	GoldStar	GD4023	
TC4024	GoldStar	GD4024	
TC4025	GoldStar	GD4025	
TC4027	GoldStar	GD4027	
TC4028	GoldStar	GD4028	
TC4029	GoldStar	GD4029	
TC4030	GoldStar	GD4030	
TC4034	GoldStar	GD4034	
TC4035	GoldStar	GD4035	
TC4040	GoldStar	GD4040	
TC4042	GoldStar	GD4042	
TC4043	GoldStar	GD4043	
TC4044	GoldStar	GD4044	
TC4047	GoldStar	GD4047	
TC4049	GoldStar	GD4049	
TC4050	GoldStar	GD4050	
TC4051	GoldStar	GD4051	
TC4052	GoldStar	GD4052	
TC4053	GoldStar	GD4053	
TC4066	GoldStar	GD4066	
	Unitrode	PIC7516	
TC4068	GoldStar	GD4068	
TC4069	GoldStar	GD4069	
TC4071	GoldStar	GD4071	
TC4075	GoldStar	GD4075	
TC4076	GoldStar	GD4076	
TC4077	GoldStar	GD4077	
TC4078	GoldStar	GD4078	
TC4081	GoldStar	GD4081	
TC4085	GoldStar	GD4085	
TC4086	GoldStar	GD4086	
TC4093	GoldStar	GD4093	
TC4510	GoldStar	GD4510	
TC4511	GoldStar	GD4511	
TC4512	GoldStar	GD4512	
TC4514	GoldStar	GD4514	
TC4516	GoldStar	GD4516	
TC4518	GoldStar	GD4518	
TC4520	GoldStar	GD4520	
TC4522	GoldStar	GD4522	
TC4526	GoldStar	GD4526	
TC4528	GoldStar	GD4528	
TC4531	GoldStar	GD4531	
TC4532	GoldStar	GD4532	
TC4539	GoldStar	GD4539	
TC4555	GoldStar	GD4555	
TC4556	GoldStar	GD4556	
TC4584	GoldStar	GD40014	
TC5002B	Micrel	MIC5002	

(Continued)

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC5101	Harris	HM6551	
TC511000	Fujitsu	MB81C1000	
	GoldStar	GM71C1000	
	Hitachi	HM511000	
	Krueger	511000-100	
		511000-70	
		511000-80	
	MicronSemi	MT4C1024	
	Mosel-Vitelic	V53C100	
		V53C100B	
	Motorola	MCM511000	
		MCM511000A	
		M5M41000	
	NEC	µPD421000	
	OKI	MSM511000	
		MSM511000A	
	Panasonic	MN41C1000	
	Samsung	KM41C1000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Vitelic	V53C100	
TC511000A	OKI	MSM511000B	
TC511000B	Fujitsu	MB81C1000	
	Hitachi	HM511000A	
	Hyundai	HY531000	
	MicronSemi	MT4C1024	
	Mitsubishi	M5M41000A	
	NEC	µPD421000C	
	OKI	MSM511000	
	Siemens	HYB511000	
	TI	TMS4C1024	
	Vitelic	V53C100	
TC511000L	GoldStar	GM71C1000L	
TC511001	Fujitsu	MB81C1001	
	Hitachi	HM511001	
	Mitsubishi	M5M41001	
	Motorola	MCM511001	
		MCM511001A	
	NEC	µPD421001	
	OKI	MSM511001	
		MSM511001A	
	Samsung	KM41C1001	
	TI	TMS4C1025	
TC511001A	OKI	MSM511001B	
TC511001B	Fujitsu	MB81C1001	
	Hitachi	HM511001A	
	MicronSemi	MT4C1025	
	Mitsubishi	M5M41001A	
	NEC	µPD421001C	
	OKI	MSM511001	
	TI	TMS4C1025	
TC511002	Fujitsu	MB81C1002	
	Hitachi	HM511002A	
	MicronSemi	MT4C1026	
	Mitsubishi	M5M41002A	
	Motorola	MCM511002	
		MCM511002A	
	NEC	µPD421002	
		µPD421002C	
	OKI	MSM511002	
		MSM511002A	
	Panasonic	MN41C1002	
	Samsung	KM41C1002	
	TI	TMS4C1026	
		TMS4C1027	
	Vitelic	V53C102	
TC511002A	OKI	MSM511002B	
TC51129	Mosel-Vitelic	V53C256	
TC5116100	Hitachi	HM5116100	
	MicronSemi	MT4C16MX1	
TC5116101	Hitachi	HM5116101	
TC5116102	Hitachi	HM5116102	
	MicronSemi	MT4C16256	
TC5116400	Hitachi	HM5116400	
	MicronSemi	MT4C4M4X1	
	Samsung	KM44C4100	
TC5116402	Hitachi	HM5116402	
	MicronSemi	MT4C4M4	
TC5116410	Hitachi	HM5116410	
TC511664	Mosel-Vitelic	V53C664	
TC511665	Mosel-Vitelic	V53C665	
TC5117400	Hitachi	HM5117400	
	MicronSemi	MT4C4M4	
	Samsung	KM44C4000	
TC5117402	Hitachi	HM5117402	
TC5117410	Hitachi	HM5117410	
TC51256	GoldStar	GM71C256A	
	OKI	MSM51C256A	
	Samsung	KM41C256	
TC51257	Samsung	KM41C257	
TC51258	Samsung	KM41C258	
TC51400	OKI	MSM514100A	
TC51401	OKI	MSM514101A	
TC51402	OKI	MSM514102A	
TC514100	Fujitsu	MB814100	
	Hitachi	HM514100	
	MicronSemi	MT4C1004	
	Mitsubishi	M5M44100	
	Mosel-Vitelic	V53C400	
	Motorola	MCM514100	
		MCM54100	
		MCM54100A	
	NEC	µPD424100	
	OKI	MSM514100	
	Panasonic	MN41C4000	
	Samsung	KM41C4000	
	Siemens	HYB514100	
	TI	TMS44100	
	Vitelic	V53C400	
TC514100A	GoldStar	GM71C4100A	
	Hyundai	HY514100	
TC514100AL	GoldStar	GM71C4100AL	
TC514101	Hitachi	HM514100	
	Motorola	MCM54101	
		MCM54101A	
	NEC	µPD424101	
	OKI	MSM514101	
	Samsung	KM41C4001	
TC514102	Hitachi	HM514102	
	MicronSemi	MT4C1006	
	Mitsubishi	M5M44102	
	Motorola	MCM54102	
		MCM54102A	
	NEC	µPD424102	
	OKI	MSM514102	
	Samsung	KM41C4002	
TC514170B	Hitachi	HM514170	
	Mitsubishi	MSM4170	
	NEC	µPD42170	
	TI	TMS45165	
TC514256	Fujitsu	MB81C4256	
	GoldStar	GM71C4256	
		GM71C4256A	
		GM71C7256	
	Hitachi	HM514256	
	Krueger	514256-100	
		514256-70	
		514256-80	
	MicronSemi	MT4C16260	
		MT4C4256	
	Mitsubishi	M5M44256	
	Mosel-Vitelic	V53C104	
		V53C104B	
	Motorola	MCM514256	
		MCM514256A	
	NEC	µPD424256	
	OKI	MSM514256	
	Panasonic	MN41C4256	
	Samsung	KM44C256	
	TI	TMS44C256	
	Vitelic	V53C104	
TC514256A	OKI	MSM514256A	
		MSM514256B	
TC514256B	Fujitsu	MB81C4256	
	Hitachi	HM514256A	
	Hyundai	HY534256	
	MicronSemi	MT4C4256	
	Mitsubishi	M5M44256B	
	NEC	µPD424256C	
	OKI	MSM514256	
	TI	TMS44C256	
	Vitelic	V53C104	
TC514258	Fujitsu	MB81C4258	
	Hitachi	HM514258	
	MicronSemi	MT4C4258	
	Mitsubishi	M5M44258	
	Motorola	MCM514258	
		MCM514258A	
	NEC	µPD42458	
	OKI	MSM514258	
	Panasonic	MN41C4258	
	Samsung	KM44C258	
	Vitelic	V53C106	
TC514258A	OKI	MSM514258A	
TC514258B	Fujitsu	MB81C4258	
	Hitachi	HM514258A	
	MicronSemi	MT4C4258	
	Mitsubishi	M5M44258B	
	NEC	µPD424258C	
	OKI	MSM514258	
	Vitelic	V53C106	
TC514260	MicronSemi	MT4C16257	
TC514260A	GoldStar	GM71C4260	
TC514260AL	GoldStar	GM71C4260L	
TC514260B	Hitachi	HM514260	
	Mitsubishi	MSM4260	
	NEC	µPD424260	
	TI	TMS45160	
TC514266	Hitachi	HM514266	
	Mitsubishi	M5M44268	
	Vitelic	V53C105	
TC514266A	OKI	MSM514266B	
TC514266B	Hitachi	HM514266A	
	Mitsubishi	M5M44266B	
	NEC	µPD424266C	
	Vitelic	V53C105	
TC514400	Fujitsu	MB814400	
	Hitachi	HM514400	
	MicronSemi	MT4C4001	
	Mitsubishi	M5M44400	
	Mosel-Vitelic	V53C404	
	Motorola	MCM514400	
		MCM54400	
		MCM54400A	
	NEC	µPD424400	
	OKI	MSM514400	
		MSM514400A	
	Panasonic	MN41C41000	
	Samsung	KM44C1000	
	Siemens	HYB514400	
	TI	TMS44400	
		TMS44410	
	Vitelic	V53C404	
TC514400A	GoldStar	GM71C4400A	
	Hyundai	HY514400	
TC514402	Hitachi	HM514402	
	MicronSemi	MT4C4003	
	Mitsubishi	M5M44402	
	Motorola	MCM54402	
		MCM54402A	
	NEC	µPD424402	
	OKI	MSM514402	
		MSM514402A	
	Samsung	KM44C1002	
TC514410	Hitachi	HM514410	
	MicronSemi	MT4C4004	
	Mitsubishi	M5M44410	
	Motorola	MCM54410	
	NEC	µPD424410	
	Panasonic	MN41C41002	
TC51464	Samsung	KM41C464	
TC51466	Samsung	KM41C466	
TC514800	MicronSemi	MT4C8512	
TC514800A	GoldStar	GM71C4800	
TC514800AL	GoldStar	GM71C4800L	
TC518128	Motorola	MCM51L8128	
		MCM518128	
	NEC	µPD431000	
	Samsung	KM658128	
TC518129	Hitachi	HM658128	
	Motorola	MCM518129	
	NEC	µPD428128	
TC51832	Hitachi	HM65256	
	Krueger	65256-100	
		65256-120	
	NEC	µPD42832	
TC524128	NEC	µPD42275	
TC524256	Mosel-Vitelic	V52C4256	
	NEC	µPD42273	
		µPD42274	
	TI	TMS44C250	
		TMS44C251	
TC524257	TI	TMS44C250	
		TMS44C251	
TC524258	MicronSemi	MT42C4256	
	NEC	µPD42274	
	Samsung	KM424C257	
TC524259	MicronSemi	MT42C4256	
	Samsung	KM424C257	
TC525256	MicronSemi	MT42C4256	
TC528126	MicronSemi	MT42C8128	
	Samsung	KM428C128	
TC528126A	TI	TMS48C121	
TC528128	MicronSemi	MT42C8128	
	Samsung	KM428C128	
TC528257	MicronSemi	MT42C8257	
TC52867	MicronSemi	MT42C8256	
TC531000	GoldStar	GM231000	
	OKI	MSM531000A	
	Panasonic	MN231001	
	Samsung	KM23C1000	
	UMC	UM23C1024	
♦ TC531000	Fujitsu	MB831000	
	Hitachi	HN62321	
		HN62331	
♦ TC531000	Mitsubishi	M5M231000	
	NEC	µPD23C1000	
	OKI	MSM531000	
	Panasonic	MN231001	
	Sharp	LH531000	
	Sony	CXK381000	
TC531001	Hitachi	HN62321	
		HN62331	
	NEC	µPD23C1001	
	OKI	MSM531001A	
	Panasonic	MN231003	
	Samsung	KM23C1010	
TC531024	NEC	µPD23C1024	
	Samsung	KM23C1000	
TC5316200	Hitachi	HN621601	
	Mitsubishi	M5M231600	
	NEC	µPD23C1600	
	Panasonic	MN2316000	
	Sharp	LH531601	
		LH5375	
TC532000	UMC	UM23C2001	
TC53257	Catalyst Semi	CAT71C256	
	OKI	MSM53256	
	Panasonic	MN23257	
	UMC	UM23C256	
TC53400	OKI	MSM534001A	
TC534000	GoldStar	GM23C4000	
	Panasonic	MN234001	
	Samsung	KM23C4000	
	Sharp	LH534	
	UMC	UM23C4000	
♦ TC534000	Fujitsu	MB834000	
	Hitachi	HN62401	
	Mitsubishi	M5M23C400	
	NEC	µPD23C4000	
	Panasonic	MN234002	
	Sharp	LH534100	
TC534200	Fujitsu	MB834100	
	Hitachi	HN62404	
	Mitsubishi	M5M23C400	
	OKI	MSM534002A	
	Panasonic	MN234000	
	Sharp	LH534000	
TC53512	UMC	UM23C512	
TC5364	Hughes	H23C64	
		H23C65	
	UMC	UM23C64	
TC5365	Hughes	H23C64	
		H23C65	
	UMC	UM23C64	
TC538000	Fujitsu	MB838000	
	Sharp	LH538100	
TC538200	Hitachi	HN62801	
	Mitsubishi	M5M23C800	
	NEC	µPD23C8000	
	OKI	MSM538002B	
	Panasonic	MN238000	
	Sharp	LH5380	
		LH538100	
TC54H1000A-100	Toshiba	TC54H1000A-85	
TC54H1000A-85	Toshiba	TC54H1000A-100	
TC54H1001A-100	Toshiba	TC54H1001A-85	
TC54H1001A-85	Toshiba	TC54H1001A-100	
TC54H1024	Hitachi	HN27C1024	
	TI	TMS27PC210	
TC54H1024-10	Toshiba	TC54H1024-100	
		TC54H1024-85	
TC54H1024-100	Toshiba	TC54H1024-10	
		TC54H1024-85	
TC54H1024-85	Toshiba	TC54H1024-10	
		TC54H1024-100	
TC54100	TI	TMS27C010A	
		TMS27PC010A	
TC541000	AMD	AM27C010	
	Hitachi	HN27C101	
	Intel	27C010	
	Mitsubishi	M5M27C101	
	Sharp	LH571000	
	TI	TMS27PC010	
TC541001	AMD	AM27C100	
	Hitachi	HN27C301	
	Mitsubishi	M5M27C100	
	Sharp	LH571001	
TC54256	AMD	AM27C256	
	Fujitsu	MBM27C256	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC54256			(Cont'd)
	Hitachi	HN27C256	
	Intel	27C256	
	Mitsubishi	M5M27C256	
	National	NMC27C256	
	NEC	μPD27C256	
	OKI	MSM27C256	
	Sharp	LH57256	
	TI	TMS27C256	
		TMS27PC256	
TC544000	AMD	AM27C040	
TC544096	TI	TMS27PC240	
TC54417	LogicDev	L7C166	
TC54512	AMD	AM27C512	
	Fujitsu	MBM27C512	
	Intel	27C512	
	Mitsubishi	M5M27C512	
	National	NMC27C512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
TC55B328	Cypress	CY7B199	
	Fujitsu	MB82B88	
	IDT	IDT71B256	
	MicronSemi	MT5C2568	
	Motorola	MCM6706	
	Paradigm	PDM41256	
	Samsung	KM68257	
	Sharp	LH52258	
TC55B329	Fujitsu	MB82B89	
	Paradigm	PDM41259	
	Sony	CXK59288	
TC55B417		SSM7166	
	Cypress	CY7B166	
	Fujitsu	MB82B75	
	Hitachi	HM6789	
	LogicDev	L7C166	
	MicronSemi	M75C6405	
	NEC	μPD4363	
	TI	TMS6788	
TC55B4257	MicronSemi	MT5C256K4	
TC55B464	Cypress	CY7B194	
	Fujitsu	MB82B84	
	Hitachi	HM6708A	
	IDT	IDT71B258	
	MicronSemi	MT5C2564	
	Mitsubishi	TC55B464	
	Motorola	MCM6708	
	NEC	μPD43254	
	Sharp	LH52253	
	TI	TMS6708	
TC55B465	Cypress	CY7B196	
	Fujitsu	MB82B85	
	Hitachi	HM6709A	
	IDT	IDT61B298	
	MicronSemi	MT5C2565	
	Motorola	MCM6709	
	NEC	μPD43253	
	Sharp	LH52252B	
TC55B8128	Fujitsu	MB82008	
	MicronSemi	MT5C128K8	
	Sony	CXK581120	
TC55B88		SSM7164	
	Cypress	CY7B185	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Samsung	KM6866	
	Sony	CXK5866	
TC55001A	Hyundai	HY628100	
TC5501	Hughes	H1822	
TC5504	Harris	HM6504	
TC5508	Harris	HM6508	
TC55100L	GoldStar	GM76C8128L	
TC551001	Fujitsu	MB841000	
	Hitachi	HM628128	
	IDT	IDT71024	
	ISSI	IS62C1024	
	Mitsubishi	M5M1006	
	Motorola	MCM6226	
	S-MOS	SRM201000	
	Samsung	KM68100	
	SGS-Thomson		
		MK48128	
	Sony	CXK581000	
		CXK581001	
	TI	TMS62828	
	UMC	UM621024	
TC551001A	OKI	MSM521001	
	Sony	CXK581000	
			(Continued)
TC551001A	Sony		(Cont'd)
		CXK581001	
		CXK581100	
TC5514	Harris	HM6514	
	Krueger	21C14-150	
		21C14-200	
		21C14-450	
TC5516	Hyundai	HY6116A	
TC5517	GoldStar	GM76C28	
	Harris	HM65162	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	Mosel-Vitelic	MS6516	
	Panasonic	MN4416	
	UMC	UM6116	
TC5518	Sharp	LH5116	
TC55186	Samsung	KM78C80	
TC55187	AT&T	ATT7C183	
	Cypress	CYC183	
		CY7C183	
	Hitachi	HM62A188	
	LogicDev	L7C183	
	MicronSemi	MT56C0816	
		MT56C0818	
	Sony	CXK7701	
	TI	SN74ACT2140	
		SN74AC210	
	UMC	UM61168	
	Vitelic	V6C330	
	VLSI Tech	VT62A188	
TC55188	AT&T	ATT7C184	
	Cypress	CYC184	
		CY7C184	
	Hitachi	HM62A168	
	LogicDev	L7C184	
	MicronSemi	MT56C3818	
	Mosel-Vitelic	V63C328	
	UMC	UM61168	
	Vitelic	V6C328	
	VLSI Tech	VT62A168	
TC5524258	Mosel-Vitelic	V52C4258	
TC55256	Fujitsu	MB84256	
	Mosel-Vitelic	MS62256	
	NEC	μPD43256	
	OKI	MSM51256	
	Sharp	LH52250AL	
TC55257	Cypress	CY7C199	
	Fujitsu	MB84256	
		MB8464	
	GoldStar	GM76C256	
	Harris	CDM62256	
	Hitachi	HM62256	
	Hyundai	HY62C256	
	IDT	IDT71256	
	ISSI	IS62C256	
	Intel	51256SL	
	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
	LogicDev	L7C199	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
		MS62257	
	Motorola	MCM60256	
		MCM6206	
	NEC	μPD43256	
	OKI	MSM51257	
	Panasonic	MN44256	
	S-MOS	SRM20256	
	Samsung	KM62256	
	SGS-Thomson		
		MK48Z30	
		MK4832	
	Sharp	LH52250AL	
		LH52256	
	Sony	CXK58257	
	TI	TMS62256	
	UMC	UM62256	
	Vitelic	V62C256	
TC55257A	GoldStar	GM76C256	
TC55257AL	GoldStar	GM76C256L	
TC55258	Sharp	LH51256	
TC55328	AMD	AM99C328	
	AT&T	ATT7C199	
	Cypress	CY7C198	
		CY7C199	
	Fujitsu	MB8287	
	Hitachi	HM62832	
	Hyundai	HY63C256	
	IDT	IDT71256	
	Intel	51256	
			(Continued)
TC55328			(Cont'd)
	Krueger	62256-025	
		62256-030	
		62256-035	
	LogicDev	L7C199	
	MicronSemi	MT5C2568	
	Mosel-Vitelic	MS62256	
	Motorola	MCM6206	
	Paradigm	PDM41256	
	Performance	P4C1256	
	S-MOS	SRM2256	
	Samsung	KM68257	
	SGS-Thomson		
		IMS1835	
	Sharp	LH52257	
		LH52258	
	Sony	CXK58255	
		CXK58258	
	TI	SMJ68CE256	
	VLSI Tech	VT62832	
TC55329	Cypress	CY7C188	
	Fujitsu	MB8289	
	IDT	IDT71259	
	MicronSemi	MT5C2889	
	Motorola	MCM6205	
	Sharp	LH52259	
	Sony	CXK59288	
	TI	SMJ68CE288	
TC554002	Sony	CXK584000	
TC55416		SSM7188	
	AMD	AM99C164	
	AT&T	ATT7C164	
	Cypress	CY7C164	
	Fujitsu	MB81C74	
	GoldStar	GM76C164	
	Hitachi	HM6288	
		HM6788	
	IDT	IDT7188	
	ISSI	IS61C66	
	Intel	51C98	
	Krueger	**6288-25**	**(3663)**
		6288-35	
		6288-45	
	Lattice	SR64K4	
	LogicDev	L7C164	
	MicronSemi	MT5C6404	
	Mitsubishi	M5M5188	
	Motorola	MCM6288	
		MCM6289	
	NEC	μPD4362	
	OKI	MSM5188	
	Performance	P4C188	
	Quality Semi	QS8888	
	S-MOS	SRM2274	
	Samsung	KM6465	
	SGS-Thomson		
		IMS1620	
		IMS1625	
	Sharp	LH5262A	
	Sony	CXK5464	
	TI	SMJ64C64	
		TMS6788	
	Vitelic	V61C62	
	VLSI Tech	VT64KS4	
TC55417		SSM7198	
	AMD	AM99C166	
	AT&T	ATT7C166	
	Cypress	CY7C166	
	Fujitsu	MB81C75	
	Hitachi	HM6289	
		HM6789	
	IDT	IDT6198	
	ISSI	61C88	
	Krueger	6289-25	
		6289-35	
		6289-45	
	Lattice	SR64E4	
	LogicDev	L7C166	
	MicronSemi	MT5C6405	
	Mitsubishi	M5M5189	
	Mosel-Vitelic	MS6267A	
	Motorola	MCM6290	
	NEC	μPD4363	
	Performance	P4C198	
	Quality Semi	QS8886	
		QS8886A	
	S-MOS	SRM2275	
	Samsung	KM6466	
	SGS-Thomson		
		IMS1624	
		IMS1629	
	Sharp	LH5267A	
	Sony	CXK5465	
			(Continued)
TC55417			(Cont'd)
	TI	TMS6789	
	VLSI Tech	VT65KS4	
TC55464	AMD	AM99C644	
	AT&T	ATT7C194	
	Cypress	CY7B194	
		CY7C194	
	Fujitsu	MB81C84A	
	Hitachi	HM6208	
		HM6708	
	IDT	IDT71258	
	Intel	51258	
	Lattice	SR256K4	
	LogicDev	L7C194	
	MicronSemi	MT5C2564	
	Mitsubishi	M5M5258	
	Mosel-Vitelic	MS62252A	
	Motorola	MCM6208	
	NEC	μPD43254	
	OKI	MSM5258	
	Panasonic	MN44252	
	Paradigm	PDM41258	
	Performance	P4C1258	
	Quality Semi	QS86440	
	S-MOS	SRM21256	
	Samsung	KM64257	
	SGS-Thomson		
		IMS1820	
	Sharp	LH52252	
	Sony	CXK54256	
	TI	SMJ64C256	
		TMS6708	
	Vitelic	V63C71	
	VLSI Tech	VT6208	
TC55465	AT&T	ATT7C195	
	Cypress	CY7B196	
		CY7C195	
		CY7C196	
	Hitachi	HM6209	
		HM6709	
	IDT	IDT61298	
	LogicDev	L7C195	
	MicronSemi	MT5C2565	
	Mosel-Vitelic	MS62253A	
	Motorola	MCM6209	
	Paradigm	PDM41298	
	Performance	P4C1298	
	Quality Semi	QS86446	
	Samsung	KM64258	
	SGS-Thomson		
		IMS1824	
	Sharp	LH52253	
	TI	TMS6709	
	Vitelic	V63C70	
TC5561	AMD	AM99C641	
	Cypress	CY7C185	
		CY7C187	
	Fujitsu	MB81C71	
	Hitachi	HM6267	
		HM6287	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	Lattice	SR64K1	
	LogicDev	L7C187	
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	NEC	μPD4361	
	OKI	MSM5187	
	Performance	P4C187	
	Samsung	KM6165	
	SGS-Thomson		
		IMS1600	
		IMS1605	
	Sharp	LH5261	
	Sony	CXK5164	
	TI	SMJ61CD64	
		TMS6787	
TC5562	AMD	AM99C641	
	AT&T	ATT7C187	
	Cypress	CY7C185	
		CY7C187	
	Fujitsu	MB81C71	
	Hitachi	HM6267	
		HM6787	
	IDT	IDT7187	
	Krueger	6287-35	
		6287-45	**(3663)**
		6287-55	
	Lattice	SR64K1	
	LogicDev	L7C187	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC5562			(Cont'd)
	MicronSemi	MT5C6401	
	Mitsubishi	M5M5187	
	Motorola	MCM6287	
	NEC	µPD4361	
	OKI	MSM5187	
	Performance	P4C187	
	Samsung	KM6165	
	SGS-Thomson	IMS1600	
		IMS1605	
	Sharp	LH5261	
	Sony	CXK5164	
	TI	SMJ61CD74	
		TMS6787	
TC5563	AMD	AM99C88	
	Cypress	CY7C185	
		CY7C186	
	Fujitsu	MB8464	
	GoldStar	GM76C88	
	Harris	CDM6264	
	Hitachi	HM6264	
	Hyundai	HY6264	
	IDT	IDT7164	
	Intel	5164SL	
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264	
	Motorola	MCM6064	
		MCM6264	
	NEC	µPD4364	
	OKI	MSM5165	
	S-MOS	SRM2264	
	Samsung	KM6264	
	SGS-Thomson	MK48H64	
	Sharp	LH5160	
		LH5168	
	Sony	CXK58257	
		CXK5864	
	TI	TMS6264	
	UMC	UM6264	
TC5563A	Mosel-Vitelic	MS6265	
TC5564	Harris	HM65642	
	Mosel-Vitelic	MS6264	
	Sharp	LH5168	
TC5565	Cypress	CY7C186	
	GoldStar	GM76C88	
	Harris	HM65642	
	Hyundai	HY6264A	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mosel-Vitelic	MS6264	
	OKI	MSM5165	
	Panasonic	MN4464	
	Performance	P4C164	
	Samsung	KM6264	
	Sharp	LH5168	
	Sony	CXK5864	
♦ TC5565	AMD	AM99C88	
	Cypress	CY7C185	
	Fujitsu	MB8464	
	GoldStar	GM76C88	
	Harris	CDM6264	
	Hitachi	HM6264	
	Hyundai	HY6264	
	IDT	IDT7164	
	Intel	5164SL	
	Lattice	SR64K8	
	Mitsubishi	M5M5165	
	Motorola	MCM6064	
		MCM6264	
♦ TC5565	NEC	µPD4364	
	OKI	MSM5165	
	Panasonic	MN4464	
	Performance	P4C164	
	S-MOS	SRM2264	
	Samsung	KM6264	
	SGS-Thomson	IMS1630	
		MK48H64	
		MK48Z06	
♦ TC5565	Sharp	LH5160	
	Sony	CXK5864	
	TI	TMS6264	
	UMC	UM6264	
	Vitelic	V62C64	
TC5565A	GoldStar	GM76C88L	
TC5565L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
TC5588		SSM7164	
	AMD	AM99C88	
	AT&T	ATT7C185	
	Cypress	CY7C185	
	Fujitsu	MB8C178A	
	IDT	IDT7164	
	ISSI	IS61C64	
	Intel	5164	
	Lattice	SR64K8	
	LogicDev	L7C185	
	MicronSemi	MT5C6408	
	Mitsubishi	M5M5178	
	Mosel-Vitelic	MS6264	
		MS6264A	
	Motorola	MCM6264	
	OKI	MSM5178	
	Performance	P4C164	
	Samsung	KM6865	
	SGS-Thomson	IMS1630	
		IMS1635	
	Sharp	LH5164	
		LH5165	
	Sony	CXK5863	
	TI	SMJ68CE64	
	UMC	UM6164	
	Vitelic	V63C64	
	VLSI Tech	VT20C99	
TC5588-35	Krueger	6264LP-035	
TC5588-45	Krueger	6264LP-045	
TC5589	Cypress	CY7C182	
	Fujitsu	MB81C79	
	IDT	IDT7169	
	Mitsubishi	M5M5179	
	Motorola	MCM6265	
	Performance	P4C163	
	SGS-Thomson	IMS1695	
	Sony	CXK5971	
		CXK5972	
	TI	SMJ69CE72	
TC57H1000	AMD	AM27H010	
TC57H1001	AMD	AM27H010	
TC57H1024	AMD	AM27C1024	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	27C210	
	Mitsubishi	M5M27C102	
	NEC	µPD27C1024	
	TI	TMS27C210	
TC57H2556	Cypress	CY7C274	
♦ TC57H256	AMD	AM27H256	
	Hitachi	HN27C256	
	Sharp	LH57254	
TC571000	AMD	AM27C010	
	Fujitsu	MBM27C1001	
	Hitachi	HN27C101	
	Intel	27C010	
	Krueger	27C010	
		27C128-200	
		27C128-250	
	Mitsubishi	M5M27C101	
	National	NMC27C010	
	NEC	µPD27C1001	
	OKI	MSM271000	
	Sharp	LH571000	
	TI	TMS27C010	
		TMS27C010A	
		TMS27PC010A	
TC571001	AMD	AM27C100	
	Fujitsu	MBM27C1000	
	Hitachi	HN27C301	
	Intel	27C100	
	Mitsubishi	M5M27C100	
	NEC	µPD27C1000	
	Sharp	LH571001	
TC571024	AMD	AM27C1024	
	Fujitsu	MBM27C1024	
	Hitachi	HN27C1024	
	Intel	27C210	
	Mitsubishi	M5M27C102	
	National	NMC27C1024	
	NEC	µPD27C1024	
	OKI	MSM27C1024	
		MSM271024	
			(Continued)
TC571024			(Cont'd)
	TI	TMS27C210A	
		TMS27PC210A	
TC57256	AMD	AM27C256	
	Cypress	CY7C274	
	Fujitsu	MBM27C256A	
	Hitachi	HN27C256	
	Intel	27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	Mitsubishi	M5M27C256	
	National	NMC27C256	
	NEC	µPD27C256A	
	OKI	MSM27C256	
		MSM27256	
	Sharp	LH57255	
	TI	TMS27C256	
		TMS27PC256	
TC57400	TI	TMS27C040	
		TMS27PC040	
TC574000	AMD	AM27C040	
	Fujitsu	MBM27C4000	
		MBM27C4001	
	Intel	27C040	
	Mitsubishi	M5M27C401	
	NEC	µPD27C4001	
	TI	TMS27C040	
TC574000D	AMD	AM27C040	
TC574096	AMD	AM27C4096	
	Fujitsu	MBM27C4096	
	Intel	27C240	
	NEC	µPD27C4096	
	TI	TMS27C240	
TC574200	AMD	AM27C400	
	Fujitsu	MBM27C4096	
	Intel	27C240	
TC57512	AMD	AM27C512	
	Cypress	CY7C286	
	Fujitsu	MBM27C512	
	Intel	27C512	
	Krueger	27C512-150	
		27C512-200	
		27C512-250	
	Mitsubishi	M5M27C512A	
	National	NMC27C512	
	NEC	µPD27C512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Toshiba	TC57512	
TC58126A	Mosel-Vitelic	V52C8126	
TC58128	Mosel-Vitelic	V52C8128	
TC58257	Intel	27F256	
		28F256	
	NEC	µPD28C256	
TC74ACT00	Harris	CD74ACT00	
	Motorola	MC74ACT00	
	National	74ACT00	
TC74ACT02	Harris	CD74ACT02	
	Motorola	MC74ACT02	
	National	74ACT02	
TC74ACT04	Harris	CD74ACT04	
	Motorola	MC74ACT04	
	National	74ACT04	
TC74ACT08	Harris	CD74ACT08	
	Motorola	MC74ACT08	
TC74ACT10	Harris	CD74ACT10	
	Motorola	MC74ACT10	
	National	74ACT10	
TC74ACT109	Harris	CD74ACT109	
	Motorola	MC74ACT109	
	National	74ACT109	
TC74ACT112	Harris	CD74ACT112	
	National	74ACT112	
TC74ACT138	Harris	CD74ACT138	
	Motorola	MC74ACT138	
	National	74ACT138	
TC74ACT139	Harris	CD74ACT139	
	Motorola	MC74ACT139	
	National	74ACT139	
TC74ACT14	Harris	CD74ACT14	
	Motorola	MC74ACT14	
	National	74ACT14	
TC74ACT151	Harris	CD74ACT151	
	Motorola	MC74ACT151	
	National	74ACT151	
TC74ACT153	Harris	CD74ACT153	
	Motorola	MC74ACT153	
	National	74ACT153	
TC74ACT157	Harris	CD74ACT157	
	Motorola	MC74ACT157	
	National	74ACT157	
TC74ACT158	Harris	CD74ACT158	
	Motorola	MC74ACT158	
	National	74ACT158	
TC74ACT161	Harris	CD74ACT161	
	Motorola	MC74ACT160	
		MC74ACT161	
	National	74ACT161	
TC74ACT163	Harris	CD74ACT163	
	Motorola	MC74ACT163	
	National	74ACT163	
	TI	74ACT16245	
TC74ACT164	Harris	CD74ACT164	
	National	74ACT164	
TC74ACT174	Harris	CD74ACT174	
	Motorola	MC74ACT174	
	National	74ACT169	
		74ACT174	
TC74ACT175	Harris	CD74ACT175	
	National	74ACT175	
TC74ACT20	Harris	CD74ACT20	
	Motorola	MC74ACT20	
TC74ACT240	Harris	CD74ACT238	
		CD74ACT240	
	Motorola	MC74ACT240	
	National	74ACT240	
TC74ACT241	Harris	CD74ACT241	
	Motorola	MC74ACT241	
	National	74ACT241	
TC74ACT244	Harris	CD74ACT244	
	Motorola	MC74ACT244	
	National	74ACT244	
TC74ACT245	Harris	CD74ACT245	
	Motorola	MC74ACT245	
	National	74ACT245	
TC74ACT251	Harris	CD74ACT251	
	Motorola	MC74ACT251	
	National	74ACT251	
TC74ACT253	Harris	CD74ACT253	
	Motorola	MC74ACT253	
	National	74ACT253	
TC74ACT257	Harris	CD74ACT257	
	Motorola	MC74ACT256	
		MC74ACT257	
	National	74ACT257	
TC74ACT258	Harris	CD74ACT258	
	Motorola	MC74ACT258	
	National	74ACT258	
TC74ACT273	Harris	CD74ACT273	
	Motorola	MC74ACT273	
	National	74ACT273	
TC74ACT280	Harris	CD74ACT280	
	National	74ACT280	
TC74ACT283	Harris	CD74ACT283	
	National	74ACT283	
TC74ACT299	Harris	CD74ACT299	
	Motorola	MC74ACT299	
	National	74ACT299	
TC74ACT32	Harris	CD74ACT32	
	Motorola	MC74ACT32	
	National	74ACT32	
TC74ACT373	Harris	CD74ACT373	
	Motorola	MC74ACT373	
	National	74ACT373	
TC74ACT374	Harris	CD74ACT374	
	Motorola	MC74ACT374	
	National	74ACT374	
TC74ACT377	Motorola	MC74ACT377	
	National	74ACT377	
TC74ACT520	National	74ACT520	
TC74ACT521	Motorola	MC74ACT521	
	National	74ACT521	
TC74ACT533	Harris	CD74ACT533	
	Motorola	MC74ACT533	
TC74ACT534	Harris	CD74ACT534	
	Motorola	MC74ACT534	
	National	74ACT534	
TC74ACT540	Harris	CD74ACT540	
	Motorola	MC74ACT540	
	National	74ACT540	
TC74ACT541	Harris	CD74ACT541	
	Motorola	MC74ACT541	
	National	74ACT541	
TC74ACT563	Harris	CD74ACT563	
	Motorola	MC74ACT563	
	National	74ACT563	
TC74ACT564	Harris	CD74ACT564	
	Motorola	MC74ACT564	
	National	74ACT564	

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74ACT573	Harris	CD74ACT573	
	Motorola	MC74ACT573	
	National	74ACT573	
TC74ACT574	Harris	CD74ACT574	
	Motorola	MC74ACT574	
	National	74ACT574	
TC74ACT640	Motorola	MC74ACT640	
TC74ACT646	Harris	CD74ACT646	
	Motorola	MC74ACT646	
	National	74ACT646	
TC74ACT648	Harris	CD74ACT647	
		CD74ACT648	
	Motorola	MC74ACT648	
TC74ACT74	Harris	CD74ACT74	
	Motorola	MC74ACT74	
	National	74ACT74	
TC74ACT821	National	74ACT821	
TC74ACT823	National	74ACT823	
TC74ACT825	Motorola	MC74ACT825	
	National	74ACT825	
TC74ACT841	National	74ACT841	
TC74ACT843	Motorola	MC74ACT843	
	National	74ACT843	
TC74ACT86	Harris	CD74ACT86	
	Motorola	MC74ACT86	
TC74AC00	Harris	CD74AC00	
	Motorola	MC74AC00	
	National	74ACT899	
		74AC00	
TC74AC02	Harris	CD74AC02	
	Motorola	MC74AC02	
	National	74AC02	
TC74AC04	Harris	CD74AC04	
	Motorola	MC74AC04	
	National	74AC04	
TC74AC05	Harris	CD74AC05	
	Motorola	MC74AC05	
TC74AC08	Harris	CD74AC08	
	Motorola	MC74AC08	
	National	74AC08	
TC74AC10	Harris	CD74AC10	
	Motorola	MC74AC10	
	National	74AC10	
TC74AC109	Harris	CD74AC109	
	Motorola	MC74AC109	
	National	74AC109	
TC74AC11	Motorola	MC74AC11	
	National	74AC11	
TC74AC112	Harris	CD74AC112	
	National	74AC112	
TC74AC125	Motorola	MC74AC125	
	National	74AC125	
TC74AC126	Motorola	MC74AC126	
TC74AC138	Harris	CD74AC138	
	Motorola	MC74AC132	
		MC74AC138	
	National	74AC138	
TC74AC139	Harris	CD74AC139	
	Motorola	MC74AC139	
	National	74AC139	
TC74AC14	Harris	CD74AC14	
	Motorola	MC74AC14	
	National	74AC14	
TC74AC151	Harris	CD74AC151	
	Motorola	MC74AC151	
	National	74AC151	
TC74AC153	Harris	CD74AC153	
	Motorola	MC74AC153	
	National	74AC153	
TC74AC157	Harris	CD74AC157	
	Motorola	MC74AC157	
	National	74AC157	
TC74AC158	Harris	CD74AC158	
	Motorola	MC74AC158	
	National	74AC158	
TC74AC160	Motorola	MC74AC160	
TC74AC161	Harris	CD74AC161	
	Motorola	MC74AC161	
	National	74AC161	
TC74AC162	Motorola	MC74AC162	
TC74AC163	Harris	CD74AC163	
	Motorola	MC74AC163	
	National	74AC163	
TC74AC164	Harris	CD74AC164	
	National	74AC164	
TC74AC166	TI	74AC16620	
TC74AC169	National	74AC169	
TC74AC174	Harris	CD74AC174	
	Motorola	MC74AC174	
	National	74AC174	
TC74AC175	Harris	CD74AC175	
	National	74AC175	
TC74AC191	Harris	CD74AC191	
	Motorola	MC74AC190	
	National	74AC191	
TC74AC20	Harris	CD74AC20	
	Motorola	MC74AC20	
	National	74AC20	
TC74AC240	Harris	CD74AC238	
		CD74AC240	
	Motorola	MC74AC240	
	National	74AC240	
TC74AC241	Harris	CD74AC241	
	Motorola	MC74AC241	
	National	74AC241	
TC74AC244	Harris	CD74AC244	
	Motorola	MC74AC244	
	National	74AC244	
TC74AC245	Harris	CD74AC245	
	Motorola	MC74AC245	
	National	74AC245	
TC74AC251	Harris	CD74AC251	
	Motorola	MC74AC251	
	National	74AC251	
TC74AC253	Harris	CD74AC253	
	Motorola	MC74AC253	
	National	74AC253	
TC74AC257	Harris	CD74AC257	
	Motorola	MC74AC256	
		MC74AC257	
	National	74AC257	
TC74AC258	Harris	CD74AC258	
	Motorola	MC74AC258	
	National	74AC258	
TC74AC273	Harris	CD74AC273	
	Motorola	MC74AC273	
	National	74AC2708	
		74AC273	
TC74AC280	Harris	CD74AC280	
	National	74AC280	
TC74AC283	Harris	CD74AC283	
	National	74AC283	
TC74AC299	Harris	CD74AC297	
		CD74AC299	
	Motorola	MC74AC299	
	National	74AC299	
TC74AC32	Harris	CD74AC32	
	Motorola	MC74AC32	
	National	74AC32	
TC74AC323	Harris	CD74AC323	
TC74AC367	**Toshiba**	**TC74AC368**	**(3836)**
TC74AC368	**Toshiba**	**TC74AC367**	**(3836)**
TC74AC373	Harris	CD74AC373	
	Motorola	MC74AC373	
	National	74AC373	
TC74AC374	Harris	CD74AC374	
	Motorola	MC74AC374	
	National	74AC374	
TC74AC377	Motorola	MC74AC377	
	National	74AC377	
TC74AC393	National	74AC399	
TC74AC520	Motorola	MC74AC4040	
	National	74AC520	
TC74AC521	Motorola	MC74AC521	
	National	74AC521	
TC74AC533	Harris	CD74AC533	
	Motorola	MC74AC533	
TC74AC534	Harris	CD74AC534	
	Motorola	MC74AC534	
TC74AC540	Harris	CD74AC540	
	Motorola	MC74AC540	
	National	74AC540	
TC74AC541	Harris	CD74AC541	
	Motorola	MC74AC541	
	National	74AC541	
TC74AC563	Harris	CD74AC563	
	Motorola	MC74AC563	
TC74AC564	Harris	CD74AC564	
	Motorola	MC74AC564	
TC74AC573	Harris	CD74AC573	
	Motorola	MC74AC573	
TC74AC574	Harris	CD74AC574	
	Motorola	MC74AC574	
	National	74AC574	
TC74AC620	Motorola	MC74AC620	
TC74AC623	Harris	CD74AC623	
	Motorola	MC74AC623	
TC74AC640	Motorola	MC74AC640	
TC74AC643	Motorola	MC74AC643	
TC74AC646	Harris	CD74AC646	
	Motorola	MC74AC646	
	National	74AC646	
TC74AC648	Harris	CD74AC647	
		CD74AC648	
	Motorola	MC74AC648	
	National	74AC648	
TC74AC670	Motorola	MC74AC657	
TC74AC74	Harris	CD74AC74	
	Motorola	MC74AC74	
	National	74AC74	
TC74AC821	National	74AC821	
TC74AC823	National	74AC823	
TC74AC825	Motorola	MC74AC825	
	National	74AC825	
TC74AC841	Motorola	MC74AC843	
	National	74AC843	
	Toshiba	**TC74AC843**	**(3836)**
TC74AC843	Motorola	MC74AC843	
	National	74AC843	
	Toshiba	**TC74AC841**	**(3836)**
TC74AC86	Harris	CD74AC86	
	Motorola	MC74AC86	
	National	74AC85	
		74AC86	
TC74HCT00A	GoldStar	GD74HCT00	
	Harris	CD74HCT00	
	Mitsubishi	M74HCT00	
	Motorola	MC74HCT00A	
	National	MM74HCT00	
	Philips	74HCT00	
	TI	SN74HCT00	
TC74HCT02A	GoldStar	GD74HCT01	
		GD74HCT02	
	Harris	CD74HCT02	
	Philips	74HCT02	
	TI	SN74HCT02	
TC74HCT04A	GoldStar	GD74HCT04	
	Harris	CD74HCT04	
	Motorola	MC74HCT04A	
	National	MM74HCT04	
	Philips	74HCT04	
	SGS-Thomson	M74HCT04	
TC74HCT08A	GoldStar	GD74HCT08	
	Harris	CD74HCT08	
	Motorola	MC74HCT08A	
	National	MM74HCT08	
	Philips	74HCT08	
	TI	SN74HCT08	
TC74HCT137	GEC Plessey	MV74HCT137	
		74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137A	
TC74HCT137A	GEC Plessey	MV74HCT137	
		74HCT137	
	GoldStar	GD74HCT137	
	Harris	CD74HCT137	
	Philips	74HCT137	
	SGS-Thomson	M74HCT137	
	TI	SN74HCT137	
	Toshiba	TC74HCT137	
TC74HCT138A	GEC Plessey	MV74HCT138	
		74HCT138	
	GoldStar	GD74HCT138	
	Harris	CD74HCT138	
	Mitsubishi	M74HCT138-1	
	Motorola	MC74HCT138A	
	National	MM74HCT138	
	Philips	74HCT138	
	SGS-Thomson	M74HCT138	
	TI	SN74HCT138	
TC74HCT139A	GEC Plessey	MV74HCT139	
		74HCT139	
	GoldStar	GD74HCT139	
	Harris	CD74HCT139	
	Mitsubishi	M74HCT139-1	
	National	MM74HCT139	
	Philips	74HCT139	
	TI	SN74HCT139	
TC74HCT157A	GoldStar	GD74HCT157	
	Harris	CD74HCT157	
	Motorola	MC74HCT157A	
	National	MM74HCT157	
	Philips	74HCT157	
	SGS-Thomson	M74HCT157	
TC74HCT158A	GoldStar	GD74HCT158	
	Harris	CD74HCT158	
	Motorola	MC74HCT158A	
	National	MM74HCT158	
	Philips	74HCT158	
	SGS-Thomson	M74HCT158	
TC74HCT164A	Harris	CD74HCT164	
	National	MM74HCT164	
	Philips	74HCT164	
	SGS-Thomson	M74HCT164	
TC74HCT174A	GoldStar	GD74HCT174	
	Harris	CD74HCT174	
	Motorola	MC74HCT174A	
	Philips	74HCT174	
TC74HCT240A	GEC Plessey	MV74HCT240	
		74HCT239	
		74HCT240	
	Harris	CD74HCT240	
	Mitsubishi	M74HCT240	
		M74HCT240-1	
	Motorola	MC74HCT240A	
	National	MM74HCT240	
	Philips	74HCT240	
	SGS-Thomson	M74HCT240	
	TI	SN74HCT240	
TC74HCT241A	GEC Plessey	MV74HCT241	
		74HCT241	
	GoldStar	GD74HCT241	
	Harris	CD74HCT241	
	Mitsubishi	M74HCT241	
		M74HCT241-1	
	Motorola	MC74HCT241A	
	National	MM74HCT241	
	Philips	74HCT241	
	SGS-Thomson	M74HCT241	
	TI	SN74HCT241	
TC74HCT244A	GEC Plessey	MV74HCT244	
		74HCT244	
	GoldStar	GD74HCT244	
	Harris	CD74HCT244	
	Mitsubishi	M74HCT244	
		M74HCT244-1	
	Motorola	MC74HCT244A	
	National	MM74HCT244	
	Philips	74HCT244	
	SGS-Thomson	M74HCT244	
	TI	SN74HCT244	
TC74HCT245A	GEC Plessey	MV74HCT245	
		74HCT245	
	GoldStar	GD74HCT245	
	Harris	CD74HCT245	
	Mitsubishi	M74HCT245-1	
	Motorola	MC74HCT245A	
	National	MM74HCT245	
	Philips	74HCT245	
	SGS-Thomson	M74HCT245	
	TI	SN74HCT245	
TC74HCT257A	GoldStar	GD74HCT257	
	Harris	CD74HCT257	
	National	MM74HCT257	
	Philips	74HCT257	
	SGS-Thomson	M74HCT257	
TC74HCT258A	Harris	CD74HCT258	
	National	MM74HCT258	
	Philips	74HCT258	
	SGS-Thomson	M74HCT258	
TC74HCT273A	GoldStar	GD74HCT273	
	Harris	CD74HCT273	
	Mitsubishi	M74HCT273-1	
	Motorola	MC74HCT273A	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HCT273A (Cont'd)			
	National	MM74HCT273	
	Philips	74HCT273	
TC74HCT32A	GoldStar	GD74HCT32	
	Harris	CD74HCT32	
	Motorola	MC74HCT32A	
	National	MM74HCT32	
	Philips	74HCT32	
	TI	SN74HCT32	
TC74HCT352A			
	Harris	CD74HCT354	
	Philips	74HCT354	
TC74HCT373A			
	GEC Plessey	MV74HCT373	
		74HCT373	
	GoldStar	GD74HCT373	
	Harris	CD74HCT373	
	Mitsubishi	M74HCT373-1	
	Motorola	MC74HCT373A	
	National	MM74HCT373	
	Philips	74HCT373	
	SGS-Thomson	M74HCT373	
	TI	SN74HCT373	
TC74HCT374A			
	GEC Plessey	MV74HCT374	
		74HCT374	
	GoldStar	GD74HCT374	
	Harris	CD74HCT374	
	Mitsubishi	M74HCT374-1	
	Motorola	MC74HCT374A	
	National	MM74HCT374	
	Philips	74HCT374	
	SGS-Thomson	M74HCT374	
	TI	SN74HCT374	
TC74HCT533A			
	GEC Plessey	MV74HCT533	
		74HCT533	
	GoldStar	GD74HCT533	
	Harris	CD74HCT533	
	Mitsubishi	M74HCT533-1	
	Motorola	MC74HCT533A	
	National	MM74HCT533	
	Philips	74HCT533	
	SGS-Thomson	M74HCT533	
	TI	SN74HCT533	
TC74HCT534A			
	GEC Plessey	MV74HCT534	
		74HCT534	
	GoldStar	GD74HCT534	
	Harris	CD74HCT534	
	Mitsubishi	M74HCT534-1	
	Motorola	MC74HCT534A	
	National	MM74HCT534	
	Philips	74HCT534	
	SGS-Thomson	M74HCT534	
	TI	SN74HCT534	
TC74HCT540A			
	GEC Plessey	MV74HCT540	
		74HCT540	
	Harris	CD74HCT540	
	Motorola	MC74HCT540	
	National	MM74HCT540	
	Philips	74HCT540	
	SGS-Thomson	M74HCT540	
	TI	SN74HCT540	
TC74HCT541A			
	GEC Plessey	MV74HCT541	
		74HCT541	
	Harris	CD74HCT541	
	Motorola	MC74HCT541	
	National	MM74HCT541	
	Philips	74HCT541	
	SGS-Thomson	M74HCT541	
	TI	SN74HCT541	
TC74HCT563A			
	GEC Plessey	MV74HCT563	
		74HCT563	
	Harris	CD74HCT563	
	Philips	74HCT563	
	SGS-Thomson	M74HCT563	
	TI	SN74HCT563	
TC74HCT564A			
	GEC Plessey	MV74HCT564	
		74HCT564	
			(Continued)
TC74HCT564A (Cont'd)			
	Harris	CD74HCT564	
	National	MM74HCT564	
	Philips	74HCT564	
	SGS-Thomson	M74HCT564	
	TI	SN74HCT564	
TC74HCT573A			
	GEC Plessey	MV74HCT573	
		74HCT573	
	Harris	CD74HCT573	
	Motorola	MC74HCT573A	
	National	MM74HCT573	
	Philips	74HCT573	
	SGS-Thomson	M74HCT573	
	TI	SN74HCT573	
TC74HCT574A			
	GEC Plessey	MV74HCT574	
		74HCT574	
	Harris	CD74HCT574	
	Motorola	MC74HCT574A	
	National	MM74HCT574	
	Philips	74HCT574	
	SGS-Thomson	M74HCT574	
	TI	SN74HCT574	
TC74HCT640A			
	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Universal	US74HCT640	
TC74HCT643A			
	Harris	CD74HCT643	
	Mitsubishi	M74HCT643-1	
	National	MM74HCT643	
	Philips	74HCT643	
	SGS-Thomson	M74HCT643	
	TI	SN74HCT643	
TC74HCT646A			
	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
TC74HCT648A			
	GoldStar	GD74HCT648	
	Harris	CD74HCT648	
	Philips	74HCT648	
	SGS-Thomson	M74HCT648	
	TI	SN74HCT648	
TC74HCT651A			
	Harris	CD74HCT651	
	SGS-Thomson	M74HCT651	
	TI	SN74HCT651	
TC74HCT652A			
	Harris	CD74HCT652	
	SGS-Thomson	M74HCT652	
	TI	SN74HCT652	
TC74HCT688A			
	Harris	CD74HCT688	
	National	MM74HCT688	
	Philips	74HCT688	
	SGS-Thomson	M74HCT688	
TC74HCT7007A			
	SGS-Thomson	M74HCT7007	
TC74HCT74A	GoldStar	GD74HCT74	
	Harris	CD74HCT74	
	Motorola	MC74HCT74A	
	National	MM74HCT74	
	Philips	74HCT74	
	SGS-Thomson	M74HCT74	
	TI	SN74HCT74	
TC74HCT86A	GoldStar	GD74HCT86	
	Harris	CD74HCT86	
	Philips	74HCT86	
	SGS-Thomson	M74HCT86	
TC74HC00A	GoldStar	GD74HC00	
	Harris	CD74HC00	
	Motorola	MC74HC00A	
			(Continued)
TC74HC00A (Cont'd)			
	National	MM74HC00	
	Philips	74HC00	
	SGS-Thomson	M74HC00	
	TI	SN74HC00	
TC74HC02A	GoldStar	GD74HC02	
	Harris	CD74HC02	
	Motorola	MC74HC02A	
	National	MM74HC02	
	Philips	74HC02	
	SGS-Thomson	M74HC02	
	TI	SN74HC02	
TC74HC03A	GoldStar	GD74HC03	
	Harris	CD74HC03	
	Motorola	MC74HC03A	
	National	MM74HC03	
	Philips	74HC03	
	SGS-Thomson	M74HC03	
	TI	SN74HC03	
TC74HC04A	GoldStar	GD74HC04	
	Harris	CD74HC04	
	Motorola	MC74HC04A	
	National	MM74HC04	
	Philips	74HC04	
	SGS-Thomson	M74HC04	
	TI	SN74HC04	
TC74HC05A	GoldStar	GD74HC05	
	National	MM74HC05	
	TI	SN74HC05	
TC74HC08A	GoldStar	GD74HC08	
	Harris	CD74HC08	
	Motorola	MC74HC08A	
	National	MM74HC08	
	Philips	74HC08	
	SGS-Thomson	M74HC08	
	TI	SN74HC08	
TC74HC09A	GoldStar	GD74HC09	
	Mitsubishi	M74HC09	
	TI	SN74HC09	
TC74HC10A	Harris	CD74HC10	
	Motorola	MC74HC10	
	National	MM74HC10	
	Philips	74HC10	
	SGS-Thomson	M74HC10	
	TI	SN74HC10	
TC74HC107A	Harris	CD74HC107	
	Motorola	MC74HC107	
	National	MM74HC107	
	Philips	74HC107	
	SGS-Thomson	M74HC107	
	TI	SN74HC107	
TC74HC109A	Harris	CD74HC109	
	Motorola	MC74HC109	
	National	MM74HC109	
	Philips	74HC109	
	SGS-Thomson	M74HC109	
	TI	SN74HC109	
TC74HC11A	GoldStar	GD74HC11	
	Harris	CD74HC11	
	Motorola	MC74HC11	
	National	MM74HC11	
	Philips	74HC11	
	SGS-Thomson	M74HC11	
	TI	SN74HC11	
TC74HC112A	Harris	CD74HC112	
	Motorola	MC74HC112	
	National	MM74HC112	
	Philips	74HC112	
	SGS-Thomson	M74HC112	
	TI	SN74HC112	
TC74HC113A	Mitsubishi	M74HC113	
	Motorola	MC74HC113	
	National	MM74HC113	
	SGS-Thomson	M74HC113	
	TI	SN74HC113	
TC74HC123	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123	
		MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	
			(Continued)
TC74HC123 (Cont'd)			
	Toshiba	TC74HC123A	
TC74HC123A	Harris	CD74HC123	
	Mitsubishi	M74HC123A	
	National	MM74HC123	
		MM74HC123A	
	Philips	74HC123	
	SGS-Thomson	M74HC123	
		M74HC123A	
	Toshiba	TC74HC123	
TC74HC125A	GoldStar	GD74HC125	
	Harris	CD74HC125	
	Motorola	MC74HC125A	
	National	MM74HC125	
	Philips	74HC125	
	SGS-Thomson	M74HC125	
	TI	SN74HC125	
TC74HC126A	GoldStar	GD74HC126	
	Harris	CD74HC126	
	Motorola	MC74HC126A	
	National	MM74HC126	
	Philips	74HC126	
	SGS-Thomson	M74HC126	
	TI	SN74HC126	
TC74HC131A	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC132A**	**(3836)**
TC74HC132A	GoldStar	GD74HC132	
	Harris	CD74HC132	
	Motorola	MC74HC132A	
	National	MM74HC132	
	Philips	74HC132	
	SGS-Thomson	M74HC132	
	TI	SN74HC132	
	Toshiba	**TC74HC131A**	**(3836)**
TC74HC133A	Motorola	MC74HC133	
	National	MM74HC133	
	SGS-Thomson	M74HC133	
	TI	SN74HC133	
TC74HC137A	GoldStar	GD74HC137	
	Harris	CD74HC137	
	Mitsubishi	M74HC137	
	Motorola	MC74HC137	
	National	MM74HC137	
	Philips	74HC137	
	SGS-Thomson	M74HC137	
	TI	SN74HC137	
TC74HC138A	GoldStar	GD74HC138	
	Harris	CD74HC138	
	Mitsubishi	M74HC138-1	
	Motorola	MC74HC138A	
	National	MM74HC138	
	Philips	74HC138	
	SGS-Thomson	M74HC138	
	TI	SN74HC138	
TC74HC139A	GoldStar	GD74HC139	
	Harris	CD74HC139	
	Mitsubishi	M74HC139-1	
	Motorola	MC74HC139A	
	National	MM74HC139	
	Philips	74HC139	
	SGS-Thomson	M74HC139	
	TI	SN74HC139	
TC74HC14A	Harris	CD74HC14	
	Mitsubishi	M74HC14	
	Motorola	MC74HC14A	
	National	MM74HC14	
	Philips	74HC14	
	SGS-Thomson	M74HC14	
	TI	SN74HC14	
TC74HC147A	GoldStar	GD74HC147	
	Harris	CD74HC147	
	Motorola	MC74HC147	
	National	MM74HC147	
	Philips	74HC147	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC147A			(Cont'd)
	SGS-Thomson	M74HC147	
	TI	SN74HC147	
TC74HC148A	GoldStar	GD74HC148	
	National	MM74HC148	
	SGS-Thomson	M74HC148	
	TI	SN74HC148	
TC74HC151A	GoldStar	GD74HC151	
	Harris	CD74HC151	
	Motorola	MC74HC151	
	National	MM74HC149	
		MM74HC151	
	Philips	74HC151	
	SGS-Thomson	M74HC151	
	TI	SN74HC151	
TC74HC153A	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Universal	US74HC153	
TC74HC154A	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Universal	US74HC154	
TC74HC155A	GoldStar	GD74HC155	
	Mitsubishi	M74HC155	
	National	MM74HC155	
	SGS-Thomson	M74HC155	
TC74HC157A	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Universal	US74HC157	
TC74HC158A	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Universal	US74HC158	
TC74HC160A	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Universal	US74HC160	
TC74HC161A	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Universal	US74HC161	
TC74HC162A	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Universal	US74HC162	
TC74HC163A	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
			(Continued)
TC74HC163A			(Cont'd)
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Universal	US74HC163	
TC74HC164A	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Universal	US74HC164	
TC74HC165A	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Universal	US74HC165	
TC74HC166A	Harris	CD74HC166	
	National	MM74HC166	
	Philips	74HC166	
	SGS-Thomson	M74HC166	
	TI	SN74HC166	
TC74HC173A	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Universal	US74HC173	
TC74HC174A	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Universal	US74HC174	
TC74HC175A	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Universal	US74HC175	
TC74HC181A	Harris	CD74HC181	
	National	MM74HC181	
	Philips	74HC181	
	SGS-Thomson	M74HC181	
TC74HC182A	Harris	CD74HC182	
	National	MM74HC182	
	Philips	74HC182	
	SGS-Thomson	M74HC182	
TC74HC190A	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Universal	US74HC190	
TC74HC191A	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Universal	US74HC191	
TC74HC192A	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
			(Continued)
TC74HC192A			(Cont'd)
	TI	SN74HC192	
	Universal	US74HC192	
TC74HC193A	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Universal	US74HC193	
TC74HC194A	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Universal	US74HC194	
TC74HC195A	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Universal	US74HC195	
TC74HC20A	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	
	TI	SN74HC20	
	Universal	US74HC20	
TC74HC21A	GoldStar	GD74HC21	
	Harris	CD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
	TI	SN74HC21	
	Universal	US74HC21	
♦ TC74HC221	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
♦ TC74HC221	**Toshiba**	**TC74HC221A**	**(3836)**
	Universal	US74HC221	
TC74HC221A	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
	Universal	US74HC221	
TC74HC237A	Harris	CD74HC22106	
		CD74HC237	
	Mitsubishi	M74HC237	
	Motorola	MC74HC237	
	National	MM74HC237	
	Philips	74HC237	
	SGS-Thomson	M74HC237	
	TI	SN74HC237	
TC74HC238A	Harris	CD74HC238	
	National	MM74HC238	
	Philips	74HC238	
	SGS-Thomson	M74HC238	
	TI	SN74HC238	
TC74HC240A	GoldStar	GD74HC240	
	Harris	CD74HC240	
	Mitsubishi	M74HC240	
		M74HC240-1	
	Motorola	MC74HC240A	
	National	MM74HC240	
	Philips	74HC240	
	SGS-Thomson	M74HC240	
	TI	SN74HC240	
TC74HC241A	GoldStar	GD74HC241	
	Harris	CD74HC241	
	Mitsubishi	M74HC241	
	Motorola	MC74HC241A	
	National	MM74HC241	
			(Continued)
TC74HC241A			(Cont'd)
	Philips	74HC241	
	SGS-Thomson	M74HC241	
		M74HC241HV	
	TI	SN74HC241	
TC74HC242A	Harris	CD74HC242	
	Mitsubishi	M74HC242	
	Motorola	MC74HC242	
	National	MM74HC242	
	Philips	74HC242	
	SGS-Thomson	M74HC242	
	TI	SN74HC242	
TC74HC243A	Harris	CD74HC243	
	Mitsubishi	M74HC243	
	National	MM74HC243	
	Philips	74HC243	
	SGS-Thomson	M74HC243	
	TI	SN74HC243	
TC74HC244A	GoldStar	GD74HC244	
	Harris	CD74HC244	
	Mitsubishi	M74HC244	
		M74HC244-1	
	Motorola	MC74HC244A	
	National	MM74HC244	
	Philips	74HC244	
	SGS-Thomson	M74HC244	
	TI	SN74HC244	
TC74HC245A	GoldStar	GD74HC245	
	Harris	CD74HC245	
	Mitsubishi	M74HC245	
		M74HC245-1	
	Motorola	MC74HC245A	
	National	MM74HC245	
		MM74HC245A	
	Philips	74HC245	
	SGS-Thomson	M74HC245	
	TI	SN74HC245	
TC74HC251A	Harris	CD74HC251	
	Mitsubishi	M74HC251	
	Motorola	MC74HC251	
	National	MM74HC251	
	Philips	74HC251	
	SGS-Thomson	M74HC251	
	TI	SN74HC251	
♦ TC74HC253	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
	Toshiba	**TC74HC253A**	**(3836)**
TC74HC253A	Harris	CD74HC253	
	Mitsubishi	M74HC253	
	Motorola	MC74HC253	
	National	MM74HC253	
	SGS-Thomson	M74HC253	
	TI	SN74HC253	
TC74HC257A	GoldStar	GD74HC257	
	Harris	CD74HC257	
	Mitsubishi	M74HC257	
	Motorola	MC74HC257	
	National	MM74HC257	
	Philips	74HC257	
	SGS-Thomson	M74HC257	
	TI	SN74HC257	
TC74HC258A	Harris	CD74HC258	
	National	MM74HC258	
	Philips	74HC258	
	SGS-Thomson	M74HC258	
	TI	SN74HC258	
TC74HC259A	Harris	CD74HC259	
	Mitsubishi	M74HC259	
	Motorola	MC74HC259	
	National	MM74HC259	
	Philips	74HC259	
	SGS-Thomson	M74HC259	
	TI	SN74HC259	
TC74HC266A	Mitsubishi	M74HC266	
		M74HC266A	
			(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC266A (Cont'd)			
	National	MM74HC266	
	SGS-Thomson	M74HC266	
	TI	SN74HC266	
TC74HC27A	GoldStar	GD74HC27	
	Harris	CD74HC27	
	Mitsubishi	M74HC27	
	Motorola	MC74HC27	
	National	MM74HC27	
	Philips	74HC27	
	SGS-Thomson	M74HC27	
	TI	SN74HC27	
TC74HC273A	GoldStar	GD74HC273	
	Harris	CD74HC273	
	Mitsubishi	M74HC273	
		M74HC273-1	
	Motorola	MC74HC273A	
	National	MM74HC273	
	Philips	74HC273	
	SGS-Thomson	M74HC273	
	TI	SN74HC273	
TC74HC279A	SGS-Thomson	M74HC279	
TC74HC280A	GoldStar	GD74HC280	
	Harris	CD74HC280	
	Mitsubishi	M74HC280	
	Motorola	MC74HC280	
	National	MM74HC280	
	Philips	74HC280	
	SGS-Thomson	M74HC280	
	TI	SN74HC280	
TC74HC283A	Harris	CD74HC283	
	Mitsubishi	M74HC283	
	National	MM74HC283	
	Philips	74HC283	
	SGS-Thomson	M74HC283	
	TI	SN74HC283	
TC74HC298A	Motorola	MC74HC298	
	National	MM74HC298	
	SGS-Thomson	M74HC298	
	TI	SN74HC298	
TC74HC299A	GoldStar	GD74HC299	
	Harris	CD74HC299	
	Motorola	MC74HC299	
	National	MM74HC299	
	Philips	74HC299	
	SGS-Thomson	M74HC299	
	TI	SN74HC299	
TC74HC30A	GoldStar	GD74HC30	
	Harris	CD74HC30	
	Mitsubishi	M74HC30	
	Motorola	MC74HC30	
	National	MM74HC30	
	Philips	74HC30	
	SGS-Thomson	M74HC30	
	TI	SN74HC30	
TC74HC32A	GoldStar	GD74HC32	
	Harris	CD74HC32	
	Mitsubishi	M74HC32	
	Motorola	MC74HC32A	
	National	MM74HC32	
	Philips	74HC32	
	SGS-Thomson	M74HC32	
	TI	SN74HC32	
TC74HC323A	National	MM74HC323	
	SGS-Thomson	M74HC323	
♦ TC74HC352	SGS-Thomson	M74HC352	
	TI	SN74HC352	
	Toshiba	**TC74HC352A**	**(3836)**
TC74HC352A	SGS-Thomson	M74HC352	
	TI	SN74HC352	
TC74HC353A	SGS-Thomson	M74HC353	
	TI	SN74HC353	
TC74HC354A	Harris	CD74HC354	
	Motorola	MC74HC354	
	National	MM74HC354	
	Philips	74HC354	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC354A (Cont'd)			
	SGS-Thomson	M74HC354	
	TI	SN74HC354	
TC74HC356A	Harris	CD74HC356	
	National	MM74HC356	
	Philips	74HC356	
	SGS-Thomson	M74HC356	
	TI	SN74HC356	
TC74HC365A	GoldStar	GD74HC365	
	Harris	CD74HC365	
	Motorola	MC74HC365	
	National	MM74HC365	
	Philips	74HC365	
	SGS-Thomson	M74HC365	
	TI	SN74HC365	
TC74HC366A	GoldStar	GD74HC366	
	Harris	CD74HC366	
	Motorola	MC74HC366	
	National	MM74HC366	
	Philips	74HC366	
	SGS-Thomson	M74HC366	
	TI	SN74HC366	
TC74HC367A	GoldStar	GD74HC367	
	Harris	CD74HC367	
	Mitsubishi	M74HC367	
	Motorola	MC74HC367	
	National	MM74HC367	
	Philips	74HC367	
	SGS-Thomson	M74HC367	
	TI	SN74HC367	
TC74HC368A	GoldStar	GD74HC368	
	Harris	CD74HC368	
	Motorola	MC74HC368	
	National	MM74HC368	
	Philips	74HC368	
	SGS-Thomson	M74HC368	
	TI	SN74HC368	
TC74HC373A	GoldStar	GD74HC373	
	Harris	CD74HC373	
	Mitsubishi	M74HC373-1	
	Motorola	MC74HC373A	
	National	MM74HC373	
	Philips	74HC373	
	SGS-Thomson	M74HC373	
	TI	SN74HC373	
TC74HC374A	GoldStar	GD74HC374	
	Harris	CD74HC374	
	Mitsubishi	M74HC374-1	
	Motorola	MC74HC374A	
	National	MM74HC374	
	Philips	74HC374	
	SGS-Thomson	M74HC374	
	TI	SN74HC374	
TC74HC375A	SGS-Thomson	M74HC375	
	TI	SN74HC375	
TC74HC377A	Harris	CD74HC377	
	Philips	74HC377	
	SGS-Thomson	M74HC377	
	TI	SN74HC377	
TC74HC386A	SGS-Thomson	M74HC386	
	TI	SN74HC386	
TC74HC390A	Harris	CD74HC390	
	Motorola	MC74HC390	
	National	MM74HC390	
	Philips	74HC390	
	SGS-Thomson	M74HC390	
	TI	SN74HC390	
TC74HC393A	GoldStar	GD74HC393	
	Harris	CD74HC393	
	Motorola	MC74HC393	
	National	MM74HC393	
	Philips	74HC393	
	SGS-Thomson	M74HC393	
	TI	SN74HC393	
TC74HC4002A	Harris	CD74HC4002	
	Mitsubishi	M74HC4002	
	Motorola	MC74HC4002	
	National	MM74HC4002	
	Philips	74HC4002	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC4002A (Cont'd)			
	SGS-Thomson	M74HC4002	
	TI	SN74HC4002	
TC74HC4007A	Harris	CD74HC40102	
	Philips	74HC40102	
	SGS-Thomson	M74HC40102	
	Toshiba	**TC74HC40102A**	**(3836)**
TC74HC40102A	Harris	CD74HC40102	
	Philips	74HC40102	
	SGS-Thomson	M74HC40102	
	Toshiba	**TC74HC4007A**	**(3836)**
TC74HC40103A	Harris	CD74HC40103	
	Philips	74HC40103	
	SGS-Thomson	M74HC40103	
TC74HC40105A	Harris	CD74HC40105	
	Philips	74HC40105	
TC74HC4016A	Harris	CD74HC4016	
	Motorola	MC74HC4016	
	National	MM74HC4016	
	Philips	74HC4016	
TC74HC4017A	Harris	CD74HC4017	
	Motorola	MC74HC4017	
	National	MM74HC4017	
	Philips	74HC4017	
	SGS-Thomson	M74HC4017	
	TI	SN74HC4017	
TC74HC4020A	Harris	CD74HC4020	
	Mitsubishi	M74HC4020	
	Motorola	MC74HC4020	
	National	MM74HC4020	
	Philips	74HC4020	
	SGS-Thomson	M74HC4020	
	TI	SN74HC4020	
TC74HC4022A	SGS-Thomson	M74HC4022	
	TI	SN74HC4022	
TC74HC4024A	Harris	CD74HC4024	
	Mitsubishi	M74HC4024	
	Motorola	MC74HC4024	
	National	MM74HC4024	
	Philips	74HC4024	
	SGS-Thomson	M74HC4024	
	TI	SN74HC4024	
TC74HC4027A	SGS-Thomson	M74HC4028	
	Toshiba	**TC74HC4028A**	**(3836)**
TC74HC4028A	SGS-Thomson	M74HC4028	
	Toshiba	TC74HC4027A	
TC74HC4040A	Harris	CD74HC4040	
	Mitsubishi	M74HC4040	
	Motorola	MC74HC4040	
	National	MM74HC4040	
	Philips	74HC4040	
	SGS-Thomson	M74HC4040	
	TI	SN74HC4040	
TC74HC4049A	Harris	CD74HC4049	
	Mitsubishi	M74HC4049B	
	Motorola	MC74HC4049	
	National	MM74HC4049	
	Philips	74HC4049	
	SGS-Thomson	M74HC4049	
TC74HC4050A	Harris	CD74HC4050	
	Mitsubishi	M74HC4050B	
	Motorola	MC74HC4050	
	National	MM74HC4050	
	Philips	74HC4050	
	SGS-Thomson	M74HC4050	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ TC74HC4051	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
	Toshiba	**TC74HC4051A**	**(3836)**
TC74HC4051A	Harris	CD74HC4051	
	Mitsubishi	M74HC4051	
	Motorola	MC74HC4051	
	National	MM74HC4051	
	Philips	74HC4051	
	SGS-Thomson	M74HC4051	
♦ TC74HC4052	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
	Toshiba	**TC74HC4052A**	**(3836)**
TC74HC4052A	Harris	CD74HC4052	
	Mitsubishi	M74HC4052	
	Motorola	MC74HC4052	
	National	MM74HC4052	
	Philips	74HC4052	
	SGS-Thomson	M74HC4052	
♦ TC74HC4053	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
	Toshiba	**TC74HC4053A**	**(3836)**
TC74HC4053A	Harris	CD74HC4053	
	Mitsubishi	M74HC4053	
	Motorola	MC74HC4053	
	National	MM74HC4053	
	Philips	74HC4053	
	SGS-Thomson	M74HC4053	
TC74HC4060A	Harris	CD74HC4060	
	Motorola	MC74HC4060	
	National	MM74HC4060	
	Philips	74HC4060	
	SGS-Thomson	M74HC4060	
	TI	SN74HC4060	
TC74HC4066A	Harris	CD74HC4066	
	Motorola	MC74HC4066	
	National	MM74HC4066	
	Philips	74HC4066	
	SGS-Thomson	M74HC4066	
	TI	SN74HC4061	
		SN74HC4066	
TC74HC4072A	SGS-Thomson	M74HC4072	
TC74HC4075A	Harris	CD74HC4075	
	Mitsubishi	M74HC4075	
	Motorola	MC74HC4075	
	National	MM74HC4075	
	Philips	74HC4075	
	SGS-Thomson	M74HC4075	
	TI	SN74HC4075	
TC74HC4078A	Mitsubishi	M74HC4078	
	Motorola	MC74HC4078	
	National	MM74HC4078	
	SGS-Thomson	M74HC4078	
	TI	SN74HC4078A	
TC74HC4094A	Harris	CD74HC4094	
	Philips	74HC4094	
	SGS-Thomson	M74HC4094	
TC74HC42A	GoldStar	GD74HC42	
	Harris	CD74HC42	
	Mitsubishi	M74HC42	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC42A (Cont'd)	Motorola	MC74HC42	
	National	MM74HC42	
	Philips	74HC42	
	SGS-Thomson	M74HC42	
	TI	SN74HC42	
TC74HC423	Harris	CD74HC423	
	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423 M74HC423A	
	Toshiba	**TC74HC423A**	(3836)
TC74HC423A	Harris	CD74HC423	
	National	MM74HC423A	
	Philips	74HC423	
	SGS-Thomson	M74HC423 M74HC423A	
	Toshiba	TC74HC423	
TC74HC4316A	Harris	CD74HC4316	
	Motorola	MC74HC4316	
	National	MM74HC4316	
	Philips	74HC4316	
	SGS-Thomson	M74HC4316	
TC74HC4351A	Harris	CD74HC4351	
	Motorola	MC74HC4351	
	Philips	74HC4351	
	SGS-Thomson	M74HC4351	
TC74HC4352A	Harris	CD74HC4352	
	Motorola	MC74HC4352	
	Philips	74HC4352	
	SGS-Thomson	M74HC4352	
TC74HC4353A	Harris	CD74HC4353	
	Motorola	MC74HC4353	
	Philips	74HC4353	
	SGS-Thomson	M74HC4353	
TC74HC4511A	Harris	CD74HC4511	
	Motorola	MC74HC4511	
	National	MM74HC4511	
	Philips	74HC4511	
	SGS-Thomson	M74HC4511	
TC74HC4514A	Harris	CD74HC4514	
	Motorola	MC74HC4514	
	National	MM74HC4514	
	Philips	74HC4514	
	SGS-Thomson	M74HC4514	
	TI	SN74HC4514	
TC74HC4515A	Harris	CD74HC4515	
	Philips	74HC4515	
	TI	SN74HC4515	
TC74HC4518A	Harris	CD74HC4518	
	National	MM74HC4518	
	Philips	74HC4518	
	SGS-Thomson	M74HC4518	
TC74HC4520A	Harris	CD74HC4520	
	National	MM74HC4520	
	Philips	74HC4520	
TC74HC4538A	Harris	CD74HC4538	
	Motorola	MC74HC4538A	
	National	MM74HC4538	
	Philips	74HC4538	
	SGS-Thomson	M74HC4538	
TC74HC4543A	Harris	CD74HC4543	
	National	MM74HC4543	
	Philips	74HC4543	
	SGS-Thomson	M74HC4543	
TC74HC51A	GoldStar	GD74HC51	
	Mitsubishi	M74HC51	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC51A (Cont'd)	Motorola	MC74HC51	
	National	MM74HC51	
	SGS-Thomson	M74HC51	
	TI	SN74HC51	
TC74HC533A	GoldStar	GD74HC533	
	Harris	CD74HC533	
	Mitsubishi	M74HC533 M74HC533-1	
	Motorola	MC74HC533A	
	National	MM74HC521 MM74HC533	
	Philips	74HC533	
	SGS-Thomson	M74HC533	
	TI	SN74HC533	
TC74HC534A	GoldStar	GD74HC534	
	Harris	CD74HC534	
	Mitsubishi	M74HC534 M74HC534-1	
	Motorola	MC74HC534A	
	National	MM74HC534	
	Philips	74HC534	
	SGS-Thomson	M74HC534	
	TI	SN74HC534	
TC74HC5353A	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
	Toshiba	**TC74HC540A**	(3836)
TC74HC540A	Harris	CD74HC540	
	Mitsubishi	M74HC540	
	Motorola	MC74HC540	
	National	MM74HC540	
	Philips	74HC540	
	SGS-Thomson	M74HC540	
	TI	SN74HC540	
	Toshiba	TC74HC5353A	
TC74HC541A	Harris	CD74HC541	
	Mitsubishi	M74HC541	
	Motorola	MC74HC541	
	National	MM74HC541	
	Philips	74HC541	
	SGS-Thomson	M74HC541	
	TI	SN74HC541	
TC74HC563A	Harris	CD74HC563	
	Motorola	MC74HC563	
	National	MM74HC563	
	Philips	74HC5555 74HC563	
	SGS-Thomson	M74HC563	
	TI	SN74HC563	
TC74HC564A	Harris	CD74HC564	
	Motorola	MC74HC564	
	National	MM74HC564	
	Philips	74HC564	
	SGS-Thomson	M74HC564	
	TI	SN74HC564	
TC74HC573A	Harris	CD74HC573	
	Motorola	MC74HC573A	
	National	MM74HC573	
	Philips	74HC573	
	SGS-Thomson	M74HC573	
	TI	SN74HC573	
TC74HC574A	Harris	CD74HC574	
	Motorola	MC74HC574A	
	National	MM74HC574	
	Philips	74HC574	
	SGS-Thomson	M74HC574	
	TI	SN74HC574	
♦ TC74HC590	National	MM74HC590	
	SGS-Thomson	M74HC590	
	TI	SN74HC590A	
	Toshiba	**TC74HC590A**	(3836)
TC74HC590A	National	MM74HC590	
	SGS-Thomson	M74HC590	
	TI	SN74HC590A	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC592A	National	MM74HC592	
	SGS-Thomson	M74HC592	
TC74HC593A	National	MM74HC593	
	SGS-Thomson	M74HC593	
TC74HC595A	Mitsubishi	M74HC595	
	Motorola	MC74HC595A	
	National	MM74HC595	
	SGS-Thomson	M74HC595	
	TI	SN74HC595	
TC74HC597A	Harris	CD74HC597	
	Motorola	MC74HC597	
	National	MM74HC597	
	Philips	74HC597	
	SGS-Thomson	M74HC597	
TC74HC620A	National	MM74HC620	
	SGS-Thomson	M74HC620	
	TI	SN74HC620	
TC74HC623A	National	MM74HC623	
	SGS-Thomson	M74HC623	
	TI	SN74HC623	
TC74HC640A	Harris	CD74HC640	
	Mitsubishi	M74HC640 M74HC640-1	
	Motorola	MC74HC640A	
	National	MM74HC640	
	Philips	74HC640	
	SGS-Thomson	M74HC640	
	TI	SN74HC640	
TC74HC643A	Harris	CD74HC643	
	Mitsubishi	M74HC643 M74HC643-1	
	National	MM74HC643	
	Philips	74HC643	
	SGS-Thomson	M74HC643	
	TI	SN74HC643	
TC74HC646A	GoldStar	GD74HC646	
	Harris	CD74HC646	
	Motorola	MC74HC646	
	National	MM74HC646	
	Philips	74HC646	
	SGS-Thomson	M74HC646	
	TI	SN74HC646	
TC74HC648A	GoldStar	GD74HC648	
	Harris	CD74HC648	
	Motorola	MC74HC648	
	National	MM74HC648	
	Philips	74HC648	
	SGS-Thomson	M74HC648	
	TI	SN74HC648	
TC74HC651A	Harris	CD74HC651	
	SGS-Thomson	M74HC651	
	TI	SN74HC651	
TC74HC652A	Harris	CD74HC652	
	SGS-Thomson	M74HC652	
	TI	SN74HC652	
TC74HC670A	Harris	CD74HC670	
	Motorola	MC74HC670	
	Philips	74HC670	
	SGS-Thomson	M74HC670	
TC74HC688A	Harris	CD74HC688	
	Motorola	MC74HC688	
	National	MM74HC688	
	Philips	74HC688	
	SGS-Thomson	M74HC688	
	TI	SN74HC688	
TC74HC690A	SGS-Thomson	M74HC690	
TC74HC691A	SGS-Thomson	M74HC691	
TC74HC692A	SGS-Thomson	M74HC692	
TC74HC693A	SGS-Thomson	M74HC693	
TC74HC696A	SGS-Thomson	M74HC696	
TC74HC697A	SGS-Thomson	M74HC698	
	Toshiba	**TC74HC698A**	(3836)

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC698A	SGS-Thomson	M74HC698	
	Toshiba	**TC74HC697A**	(3836)
TC74HC699A	SGS-Thomson	M74HC699	
TC74HC7240A	SGS-Thomson	M74HC7240	
TC74HC7241A	SGS-Thomson	M74HC7241	
TC74HC7244A	SGS-Thomson	M74HC7244	
TC74HC7266A	Harris	CD74HC7266	
	Motorola	MC74HC7266	
	National	MM74HC7266	
	Philips	74HC7266	
	SGS-Thomson	M74HC7266	
	TI	SN74HC7266	
♦ TC74HC7292	SGS-Thomson	M74HC7292	
	Toshiba	**TC74HC7292A**	(3836)
TC74HC7292A	SGS-Thomson	M74HC7292	
♦ TC74HC7294	SGS-Thomson	M74HC7294	
	Toshiba	**TC74HC7294A**	(3836)
TC74HC7294A	SGS-Thomson	M74HC7294	
TC74HC73A	Harris	CD74HC73	
	Mitsubishi	M74HC73	
	Motorola	MC74HC73	
	National	MM74HC73	
	Philips	74HC73	
	SGS-Thomson	M74HC73	
	TI	SN74HC73	
TC74HC74A	GoldStar	GD74HC74	
	Harris	CD74HC74	
	Mitsubishi	M74HC74	
	Motorola	MC74HC74A	
	National	MM74HC74	
	Philips	74HC74	
	SGS-Thomson	M74HC74	
	TI	SN74HC74	
TC74HC75A	Harris	CD74HC75	
	Mitsubishi	M74HC75	
	Motorola	MC74HC75	
	National	MM74HC75	
	Philips	74HC75	
	SGS-Thomson	M74HC75	
	TI	SN74HC75	
TC74HC76A	Mitsubishi	M74HC76	
	Motorola	MC74HC76	
	National	MM74HC76	
	SGS-Thomson	M74HC76	
	TI	SN74HC76	
TC74HC7640A	SGS-Thomson	M74HC7640	
TC74HC7643A	SGS-Thomson	M74HC7643	
TC74HC7645A	SGS-Thomson	M74HC7645	
TC74HC77A	SGS-Thomson	M74HC77	
	TI	SN74HC77	
TC74HC85A	Harris	CD74HC85	
	Mitsubishi	M74HC842-1 M74HC85	
	Motorola	MC74HC85	
	National	MM74HC85	
	Philips	74HC85	
	SGS-Thomson	M74HC85	
	TI	SN74HC85	
TC74HC86A	GoldStar	GD74HC86	
	Harris	CD74HC86	
	Mitsubishi	M74HC86	
	Motorola	MC74HC86	
	National	MM74HC86	
	Philips	74HC86	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
TC74HC86A			(Cont'd)
	SGS-Thomson	M74HC86	
	TI	SN74HC86	
TC74LVQ00	**Toshiba**	**TC74LVQ02**	**(3837)**
TC74LVQ02	**Toshiba**	**TC74LVQ00**	**(3837)**
TC74LVQ04	**Toshiba**	**TC74LVQ08**	**(3837)**
TC74LVQ08	**Toshiba**	**TC74LVQ04**	**(3837)**
TC74LVQ138	National	74LVQ125	
TC74LVQ14	**Toshiba**	**TC74LVQ151**	**(3837)**
TC74LVQ151	**Toshiba**	**TC74LVQ14**	**(3837)**
TC74LVQ157	**Toshiba**	**TC74LVQ174**	**(3837)**
TC74LVQ174	**Toshiba**	**TC74LVQ157**	**(3837)**
TC74LVQ240	**Toshiba**	**TC74LVQ241**	**(3837)**
TC74LVQ241	**Toshiba**	**TC74LVQ240**	**(3837)**
TC74LVQ244	**Toshiba**	**TC74LVQ245**	**(3837)**
TC74LVQ245	**Toshiba**	**TC74LVQ244**	**(3837)**
TC74LVQ273	**Toshiba**	**TC74LVQ32**	**(3837)**
TC74LVQ32	**Toshiba**	**TC74LVQ273**	**(3837)**
TC74LVQ373	**Toshiba**	**TC74LVQ374**	**(3837)**
TC74LVQ374	**Toshiba**	**TC74LVQ373**	**(3837)**
TC74LVQ573	**Toshiba**	**TC74LVQ74**	**(3837)**
TC74LVQ74	Toshiba	TC74LVQ573	
TC74LVQ86	**Toshiba**	**TC74LVX00**	**(3837)**
TC74LVX00	**Toshiba**	**TC74LVQ86**	**(3837)**
TC74LVX02	**Toshiba**	**TC74LVX04**	**(3837)**
TC74LVX04	**Toshiba**	**TC74LVX02**	**(3837)**
TC74LVX08	**Toshiba**	**TC74LVX125**	**(3837)**
TC74LVX125	**Toshiba**	**TC74LVX08**	**(3837)**
TC74LVX138	**Toshiba**	**TC74LVX14**	**(3837)**
TC74LVX14	**Toshiba**	**TC74LVX138**	**(3837)**
TC74LVX157	**Toshiba**	**TC74LVX174**	**(3837)**
TC74LVX174	**Toshiba**	**TC74LVX157**	**(3837)**
TC74LVX240	National	74LVX240	
TC74LVX244	National	74LVX244	
TC74LVX245	National	74LVX245	
TC74LVX273	**Toshiba**	**TC74LVX32**	**(3837)**
TC74LVX32	**Toshiba**	**TC74LVX273**	**(3837)**
TC74LVX373	**Toshiba**	**TC74LVX374**	**(3837)**
TC74LVX374	**Toshiba**	**TC74LVX373**	**(3837)**
TC74LVX573	**Toshiba**	**TC74LVX74**	**(3837)**
TC74LVX74	**Toshiba**	**TC74LVX573**	**(3837)**
TC74LVX86	Philips	74LV00	
	TI	SN74LV00	
TC74VHCT00	TI	SN74S8840	
TC74VHCT04	**Toshiba**	**TC74VHCT08**	**(3837)**
TC74VHCT08	**Toshiba**	**TC74VHCT04**	**(3837)**
TC74VHCT112	**Toshiba**	**TC74VHCT138**	**(3837)**
TC74VHCT138	**Toshiba**	**TC74VHCT112**	**(3837)**
TC74VHCT240	**Toshiba**	**TC74VHCT244**	**(3837)**
TC74VHCT244	**Toshiba**	**TC74VHCT240**	**(3837)**
TC74VHCT245	**Toshiba**	**TC74VHCT299**	**(3837)**
TC74VHCT299	**Toshiba**	**TC74VHCT245**	**(3837)**
TC74VHCT373	National	74VHCT373	
TC74VHCT374	**Toshiba**	**TC74VHCT540**	**(3837)**
			(Continued)
TC74VHCT540	**Toshiba**	**TC74VHCT374**	**(3837)**
TC74VHCT541	**Toshiba**	**TC74VHCT573**	**(3837)**
TC74VHCT573	**Toshiba**	**TC74VHCT541**	**(3837)**
TC74VHCT574	**Toshiba**	**TC74VHCT74**	**(3837)**
TC74VHCT74	**Toshiba**	**TC74VHCT574**	**(3837)**
TC74VHC00	Toshiba	74VHC00	
TC74VHC02	**Toshiba**	**TC74VHC04**	**(3837)**
TC74VHC04	**Toshiba**	**TC74VHC02**	**(3837)**
TC74VHC08	**Toshiba**	**TC74VHC10**	**(3837)**
TC74VHC10	**Toshiba**	**TC74VHC08**	**(3837)**
TC74VHC11	**Toshiba**	**TC74VHC112**	**(3837)**
TC74VHC112	**Toshiba**	**TC74VHC11**	**(3837)**
TC74VHC123A	**Toshiba**	**TC74VHC125**	**(3837)**
TC74VHC125	**Toshiba**	**TC74VHC123A**	**(3837)**
TC74VHC126	**Toshiba**	**TC74VHC132**	**(3837)**
TC74VHC132	**Toshiba**	**TC74VHC126**	**(3837)**
TC74VHC138	**Toshiba**	**TC74VHC139**	**(3837)**
TC74VHC139	**Toshiba**	**TC74VHC138**	**(3837)**
TC74VHC14	National	74VHC14	
TC74VHC153	**Toshiba**	**TC74VHC157**	**(3837)**
TC74VHC157	**Toshiba**	**TC74VHC153**	**(3837)**
TC74VHC161	**Toshiba**	**TC74VHC163**	**(3837)**
TC74VHC163	**Toshiba**	**TC74VHC161**	**(3837)**
TC74VHC164	**Toshiba**	**TC74VHC165**	**(3837)**
TC74VHC165	**Toshiba**	**TC74VHC164**	**(3837)**
TC74VHC174	**Toshiba**	**TC74VHC175**	**(3837)**
TC74VHC175	**Toshiba**	**TC74VHC174**	**(3837)**
TC74VHC20	**Toshiba**	**TC74VHC21**	**(3837)**
TC74VHC21	**Toshiba**	**TC74VHC20**	**(3837)**
TC74VHC221A	**Toshiba**	**TC74VHC238**	**(3837)**
TC74VHC238	**Toshiba**	**TC74VHC221A**	**(3837)**
TC74VHC240	**Toshiba**	**TC74VHC244**	**(3837)**
TC74VHC244	**Toshiba**	**TC74VHC240**	**(3837)**
TC74VHC245	**Toshiba**	**TC74VHC257**	**(3837)**
TC74VHC257	**Toshiba**	**TC74VHC245**	**(3837)**
TC74VHC27	**Toshiba**	**TC74VHC273**	**(3837)**
TC74VHC273	**Toshiba**	**TC74VHC27**	**(3837)**
TC74VHC299	**Toshiba**	**TC74VHC32**	**(3837)**
TC74VHC32	**Toshiba**	**TC74VHC299**	**(3837)**
TC74VHC367	**Toshiba**	**TC74VHC368**	**(3837)**
TC74VHC368	**Toshiba**	**TC74VHC367**	**(3837)**
TC74VHC373	National	74VHC373	
TC74VHC374	National	74VHC393	
	Toshiba	**TC74VHC393**	**(3837)**
TC74VHC393	National	74VHC393	
	Toshiba	**TC74VHC374**	**(3837)**
TC74VHC4040	**Toshiba**	**TC74VHC540**	**(3837)**
TC74VHC540	**Toshiba**	**TC74VHC4040**	**(3837)**
TC74VHC541	National	74VHC573	
	Toshiba	**TC74VHC573**	**(3837)**
TC74VHC573	National	74VHC573	
	Toshiba	**TC74VHC541**	**(3837)**
TC74VHC574	National	74VHC574	
			(Continued)
TC74VHC595	**Toshiba**	**TC74VHC74**	**(3837)**
TC74VHC74	**Toshiba**	**TC74VHC595**	**(3837)**
TC8831	Samsung	KS5915	
TC9012	Samsung	KS5410	
TC9162	NJR	NJU7311	
TC9163	NJR	NJU7312	
TC9164	NJR	NJU7313	
TC9224	Samsung	KS7226	
TDB2046	**Harris**	**CA3046**	**(3637)**
TD62001	Allegro Micro	ULN2001	
TD62003	Allegro Micro	ULN2003	
TD62004	Allegro Micro	ULN2004	
TD62064	Allegro Micro	ULN2064	
TD62081	Allegro Micro	ULN2801	
TD62083	Allegro Micro	ULN2803	
TD62084	Allegro Micro	ULN2804	
TD62101	Allegro Micro	ULN2001	
TD62103	Allegro Micro	ULN2003	
TD62104	Allegro Micro	ULN2004	
TD6250	Harris	CA3183	
TD62781	Allegro Micro	UDN6118	
TD6347	Samsung	KS3502	
TD6352	GEC Plessey	SP5000	
TD6712	Fujitsu	MB40576	
TD74BC00	Motorola	MC74BC00	
	TI	SN74AS95	
TD74BC08	Motorola	MC74BC08	
TD74BC230	Motorola	MC74BC230	
TD74BC231	Motorola	MC74BC231	
TD74BC240	Motorola	MC74BC240	
TD74BC241	Motorola	MC74BC241	
TD74BC242	Motorola	MC74BC242	
TD74BC243	Motorola	MC74BC243	
TD74BC244	Motorola	MC74BC244	
TD74BC32	Motorola	MC74BC32	
TD74BC365	Motorola	MC74BC365	
TD74BC366	Motorola	MC74BC366	
TD74BC367	Motorola	MC74BC367	
TD74BC368	Motorola	MC74BC368	
TD74BC373	Motorola	MC74BC373	
TD74BC374	Motorola	MC74BC374	
TD74BC533	Motorola	MC74BC533	
TD74BC534	Motorola	MC74BC534	
TD74BC540	Motorola	MC74BC540	
TD74BC541	Motorola	MC74BC541	
TD74BC563	Motorola	MC74BC563	
TD74BC564	Motorola	MC74BC564	
TD74BC573	Motorola	MC74BC573	
TD74BC574	Motorola	MC74BC574	
TD74BC575	Motorola	MC74BC575	
TD74BC620	Motorola	MC74BC620	
TD74BC623	Motorola	MC74BC623	
TD74BC640	Motorola	MC74BC640	
TD74BC643	Motorola	MC74BC643	
TD74BC645	Motorola	MC74BC645	
THM321000	Hitachi	HB56D132	
	MicronSemi	MT8D132	
THM321000ASG	GoldStar	GMM7321000SG	
THM321020	OKI	MSC23132	
THM322020	Hitachi	HB56D232	
	MicronSemi	MT16D232	
	OKI	MSC23232	
THM322020ASG	GoldStar	GMM322000SG	
THM322500	OKI	MSC2327	
THM325120	OKI	MSC2333	
THM361020	Hitachi	HB56D136	
	MicronSemi	MT12D136	
	Mitsubishi	MH1M36	
	OKI	MSC23136	
		MSC2350	
	Samsung	KMM5361000	
THM361020SG	GoldStar	GMM7361000SG	
THM3610205	Peps	PEP1MX36	
THM362020	Hitachi	HB56D236	
	MicronSemi	MT24D236	
	OKI	MSC23236	
THM362040ASC	GoldStar	GMM7362000SG	
			(Continued)
THM362500	Fujitsu	MB85236	
	Hitachi	HB56D25636	
	MicronSemi	MT8C36256	
	Mitsubishi	MH25636AJ	
	NEC	MC424256A36	
	OKI	MSC2320	
	Samsung	KMM536256	
THM362500A	OKI	MSC2320A	
	Peps	PEP25636	
THM362500AS	GoldStar	GMM736256SG	
THM3625600A	Motorola	MCM36256	
	TI	TM256BK36B	
THM364020	Peps	PEP4MX36	
THM365120	Hitachi	HB56D51236	
	MicronSemi	MT8C36512	
	Mitsubishi	MH51236AJ	
	NEC	MC424512A36	
	OKI	MSC2321	
	Samsung	KMM536512	
THM365120A	Motorola	MCM36512	
	OKI	MSC2321A	
	Peps	PEP51236	
THM365120AS	GoldStar	GMM736512SG	
	TI	TM512LBK36B	
		TM512LBK36C	
THM401000ASG	Peps	PEP1MX40	
THM401020	OKI	MSC23140	
THM402000ASG	Peps	PEP2MX40	
THM402020	OKI	MSC23240	
THM405120	Fujitsu	MB85254	
THM81000	Fujitsu	MB85230	
	Hitachi	HB56A18	
	MicronSemi	MT8C8024	
		MT8D18	
	Mitsubishi	MH1M08AOJ	
	Motorola	MCM81000	
	NEC	MC42100A8	
		MC421000A8	
	NMB	MM1M100J8	
	OKI	MSC2313	
	Samsung	KMM581000	
	TI	TM024GAD8	
		TM124EAD9B	
		TM124GU8A	
THM81000A	Motorola	MCM81000	
	OKI	MSC2313A	
	Peps	PEP1MX8	
THM81000AS	GoldStar	GMM781000S	
THM81070	MicronSemi	MT2D18	
THM82500	Hitachi	HB561008	
	MicronSemi	MT8C8256	
	Mitsubishi	MH25608	
	Mosel-Vitelic	V256J8	
	NEC	MC157	
	OKI	MSC2328	
	TI	TM4256GU8	
THM84000	Hitachi	HB56A48	
	MicronSemi	MT8D48	
	Mitsubishi	MH4M08	
	OKI	MSC2341	
THM84000A	OKI	MSC23408	
THM91000	Fujitsu	MB85235	
	Hitachi	HB56A19	
	MicronSemi	MT8C9024	
		MT9D19	
	Mitsubishi	MH1M09AOJ	
	Motorola	MCM91000	
	NEC	MC421000A9	
		MC424256A36	
	NMB	MM1M100J9	
	OKI	MSC2312	
	TI	TM024EAD9	
		TM124EAD9C	
THM91000A	Motorola	MCM91000	
	OKI	MSC23109	
	Peps	PEP1MX9	
	Samsung	KMM591000	
THM91000AS	GoldStar	GMM791000S	
	OKI	MSC2312A	
THM91070	MicronSemi	MT3D19	
THM91070S	GoldStar	GMM791000NS	
THM92500	Fujitsu	MB85240	
	Hitachi	HB561003	
	MicronSemi	MT8C9256	
	Mitsubishi	MH25609	
	Mosel-Vitelic	V256J9	
	NEC	MC41256A9	
			(Continued)

Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
THM92500			(Cont'd)
	OKI	MSC2331	
	TI	TM42566U9	
THM94000	Hitachi	HB56A49	
	MicronSemi	MT9D49	
	Mitsubishi	MH4M09	
	OKI	MSC2340	
THM94000A	OKI	MSC23409	
THM94000ASG			
	GoldStar	GMM794000S	
TLP120	Sharp	PC354	
TLP121	NEC	PS2701-1	
	Sharp	PC357	
TLP124	Sharp	PC356	
TLP127	Sharp	PC355	
TLP2200	HP	HCPL2200	
TLP2530	HP	HCPL2530	
TLP2531	HP	HCPL2531	
TLP2601	HP	HCPL2601	
TLP2630	HP	HCPL2630	
TLP2631	HP	HCPL2631	
TLP3021	AEG Corp	K3010P	
		K3020P	
	Motorola	MOC3009	
		MOC3010	
		MOC3020	
		MOC3021	
TLP3022	Motorola	MOC3011	
		MOC3022	
		MOC633A	
		MOC633B	
		MOC634A	
		MOC634B	
		MOC635A	
		MOC635B	
TLP3023	Motorola	MOC3012	
		MOC3023	
TLP3041	Motorola	MOC3030	
		MOC3031	
		MOC3040	
		MOC3041	
TLP3042	Motorola	MOC3032	
		MOC640A	
		MOC640B	
		MOC641A	
		MOC641B	
TLP3052	Siemens	IL420	
TLP3061	Motorola	MOC3060	
		MOC3061	
TLP3062	Motorola	MOC3062	
	Siemens	IL410	
TLP3063	Motorola	MOC3063	
TLP321	Sharp	PC816	
TLP321-2	Sharp	PC826	
TLP321-4	Sharp	PC846	
TLP371	Motorola	H11G1	
		H11G2	
		H11G3	
	Sharp	PC725	
TLP372	Motorola	MOC8020	
		MOC8021	
		MOC8030	
		MOC8050	
TLP504A	Siemens	ILCT6	
		ILD1	
TLP504A-2	Siemens	ILQ1	
TLP531	Sharp	PC723	
TLP541G	Motorola	H11C1	
		H11C2	
		H11C3	
		H11C4	
		H11C5	
		H11C6	
		MOC3002	
		MOC3003	
		MOC3007	
	Sharp	S12MD1	
		S13MD1	
	Siemens	H11C4	
		H11C5	
		H11C6	
		IL400	
TLP545J	Sharp	S22MD1	
TLP550	NEC	PS5016B	
TLP560G	Sharp	S11MD3	
TLP560J	Sharp	S11MD3H	
		S21MD3	
TLP561J	Sharp	S21MD4	
TLP570	Motorola	MOC119	
	TI	TIL119	
		TIL119A	
TLP571	Motorola	H11B1	
		H11B2	
		H11B3	
	Siemens	IL30	
TLP620	Sharp	PC814	
TLP620-2	Sharp	PC824	
TLP620-4	Sharp	PC844	
TLP621	NEC	PS2401-1	
		PS2501-1	
	Sharp	PC810	
		PC817	
TLP621-2	NEC	PS2501-2	
	Sharp	PC827	
TLP621-3	NEC	PS2501-3	
	Sharp	PC837	
TLP621-4	NEC	PS2501-4	
	Sharp	PC847	
TLP624	NEC	PS2403-1	
TLP626	Sharp	PC813	
TLP626-2	Sharp	PC823	
TLP626-4	Sharp	PC843	
TLP630	Motorola	H11AA1	
		H11AA2	
		H11AA3	
	Sharp	PC733	
		PC733H	
	Siemens	H11AA1	
		IL250	
		IL251	
TLP631	Motorola	H11A1	
		H11A2	
		H11A3	
		H11A4	
		H11A5	
		IL1	
		IL12	
		IL74	
		MCT2	
		MCT2E	
		MOC1005	
		MOC1006	
	Sharp	PC702	
		PC703	
		PC713	
	Siemens	IL1	
		IL5	
	TI	MCT2	
		MCT2E	
		TIL111	
		TIL112	
		TIL113	
		TIL114	
		TIL115	
		TIL116	
		TIL117	
		TIL124	
		TIL125	
		TIL126	
		TIL153	
		TIL154	
		TIL155	
TLP632	Motorola	MOC8111	
		MOC8112	
	Sharp	PC714	
	TI	TIL118	
TLP731	AEG Corp	CQY80N	
	Motorola	MOC601A	
		MOC601B	
		MOC602A	
		MOC602B	
		MOC603A	
		MOC603B	
TL8808	Samsung	KS7104	
TL8809	Samsung	KS7105	
TMM2015	Cypress	CY7C128	
	LogicDev	L6116	
TMM2016	AMD	AM9122	
	Krueger	**2128-100**	**(3663)**
		2128-120	**(3663)**
	Mosel-Vitelic	MS6516	
TMM2018	Cypress	CY7C128	
		CY7C128A	
	IDT	IDT6116	
	LogicDev	L6116	
	Mosel-Vitelic	MS6516	
TMM2064	Mosel-Vitelic	MS6264	
TMM2064-70	Krueger	6264-070	
TMM2068	Cypress	CY7C168	
		CY7C168A	
TMM2068			(Cont'd)
	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	LogicDev	L7C168	
	Performance	P4C168	
TMM2069	Cypress	CY7C169	
TMM2078	Cypress	CY7C170	
	LogicDev	L7C170	
TMM2088	Cypress	CY7C186	
	Krueger	6264-025	
		6264-035	
		6264-045	
	Mosel-Vitelic	MS6264	
	UMC	UM6164	
TMM2089	Mosel-Vitelic	MS6264	
TMM2114A	**Krueger**	**2114-150**	**(3663)**
		2114-200	**(3663)**
		2114-450	**(3663)**
TMM23128	OKI	MSM38128	
	Panasonic	MN23128	
TMM2365	OKI	MSM3864	
TMM27128	**Krueger**	**27128-200**	**(3663)**
		27128-250	**(3663)**
		27128-300	**(3663)**
	OKI	MSM27128	
	SEEQ	27128	
	TI	TMS27C128	
		TMS27PC128	
TMM27256	Cypress	CY7C274	
	Krueger	**27256-200**	**(3663)**
		27256-250	**(3663)**
		27256-300	**(3663)**
	OKI	MSM27256	
	TI	TMS27C256	
		TMS27PC256	
	Waferscale	WS27C256	
TMM2732	**Krueger**	**2732-250**	**(3663)**
		2732-300	**(3663)**
		2732-350	**(3663)**
		2732-450	**(3663)**
TMM27512	AMD	AM27C512	
	Cypress	CY7C286	
	Krueger	**27512-200**	**(3663)**
		27512-250	**(3663)**
	OKI	MSM27512	
	TI	TMS27C510	
		TMS27C512	
		TMS27PC510	
		TMS27PC512	
	Waferscale	WS27C512	
TMM2764	Catalyst Semi	CAT2764	
	Krueger	**2764-200**	**(3663)**
		2764-250	**(3663)**
		2764-300	**(3663)**
		2764-450	**(3663)**
	OKI	MSM2764	
	SEEQ	2764	
TMM2764A	**Krueger**	**2764A-200**	**(3663)**
		2764A-300	**(3663)**
		2764A-450	**(3663)**
TMM315	Cypress	CY2147	
TMM323	**Krueger**	**2716-350**	**(3663)**
		2716-450	**(3663)**
TMM41256	GoldStar	GM71256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
	Mosel-Vitelic	V53C256	
	NEC	μPD41256	
	Panasonic	MN41256	
	Siemens	HYB41256	
TMM41256C	OKI	MSM41256A	
TMM41257	OKI	MSM41257A	
	Panasonic	MN41257	
♦ TMM41257	Rochester	4257	
TMM41464	GoldStar	GM71C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
	Mosel-Vitelic	V53C464	
	NEC	μPD41464	
	Panasonic	MN41464	
TMM41464A	Hyundai	HY53C464	
TMM41464P	OKI	MSM41464	
TMM4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
TMM4164A	OKI	MSM3764A	
TMM514100	Siemens	HYB514100	
TMM514256	Siemens	HYB514256	
TMM514400	Siemens	HYB514400	
TMPZ84C00	Zilog	Z84C00	
TMPZ84C01	Zilog	Z84C01	
TMPZ84C011	Zilog	Z84011	
TMPZ84C013	Zilog	Z84013	
TMPZ84C015	Zilog	Z84015	
TMPZ84C10	Zilog	Z84C10	
TMPZ84C20	Zilog	Z84C20	
TMPZ84C30	Zilog	Z84C30	
TMPZ84C4X	Zilog	Z84C4X	
TMP68HC05	Hitachi	HD6305	
TMP68HC11	Hitachi	HD6301	
		HD647180	
TMP8039	Krueger	8039	
TMP8085A	Krueger	8085A	
	Newbridge	CA80C85B	
	OKI	MSM80C85A	
TMP8155	OKI	MSM81C55	
TMP8156	OKI	MSM81C56	
TMP82C37A	Newbridge	CA82C37A	
TMP82C51	Krueger	8251	
TMP82C53	Krueger	8253	
TMP82C55A	Newbridge	CA82C55A	
TMP82C59A	Newbridge	CA82C59A	
TMP8212	OKI	MSM82C12	
TMP8237	Krueger	8237	
TMP8237A	Newbridge	CA82C37A	
TMP8251	Krueger	8251	
TMP8251A	OKI	MSM82C51A	
TMP8253	Krueger	8253	
	OKI	MSM82C53	
TMP8255	Krueger	8255	
TMP8255A	OKI	MSM82C55A	
TMP8259A	Krueger	8259	
	Newbridge	CA82C59A	
	OKI	MSM82C59A	
TMP8755A	OKI	MSM87C55A	
TMP91C640	Hitachi	HD647180	
TOLD9200	Hitachi	HL6711	
TOLD9211	Hitachi	HL6712	
T6668	Samsung	KS5917	
T6721	Samsung	KS5901	
T6899	Samsung	KS6027	
4N25	AEG Corp	4N25	
	Motorola	4N25	
	Sharp	PC4N25	
	Siemens	4N25	
	TI	4N25	
4N25A	Motorola	4N25A	
4N26	AEG Corp	4N26	
	Motorola	4N26	
	Sharp	PC4N26	
	Siemens	4N26	
	TI	4N26	
4N27	AEG Corp	4N27	
	Motorola	4N27	
	Sharp	PC4N27	
	Siemens	4N27	
	TI	4N27	
4N28	Motorola	4N28	
	Sharp	PC4N28	
	Siemens	4N28	
	TI	4N28	
4N29	Motorola	4N29	
	Sharp	PC4N29	
4N29A	Motorola	4N29A	
4N30	Motorola	4N30	
	Sharp	PC4N30	
4N31	Motorola	4N31	
4N32	AEG Corp	4N32	
	Motorola	4N32	
	Sharp	PC4N32	
	Siemens	4N32	
4N32A	Motorola	4N32A	
4N33	AEG Corp	4N33	
	Motorola	4N33	
	Sharp	PC4N33	
	Siemens	4N33	
4N35	AEG Corp	4N35	
	Motorola	4N35	
	Sharp	PC4N35	
	Siemens	4N35	
	TI	4N35	
4N36	AEG Corp	4N36	
	Motorola	4N36	
	Sharp	PC4N36	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Toshiba America Electronic Components (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
4N36			(Cont'd)
	Siemens	4N36	
	TI	4N36	
4N37	AEG Corp	4N37	
	Motorola	4N37	
	Sharp	PC4N37	
	Siemens	4N37	
	TI	4N37	
4N38	Motorola	4N38	
4N38A	AEG Corp	4N38A	
	Motorola	4N38A	
6N135	HP	6N135	
	Siemens	6N135	
6N136	HP	6N136	
	Siemens	6N136	
6N137	Sharp	PC910	
6N138	HP	6N138	
	Siemens	6N138	
6N139	HP	6N139	
	Siemens	6N139	
♦ 74AC251	Harris	CD74AC251	
	Motorola	MC74AC251	
	National	74AC251	
	Toshiba	**TC74AC251**	**(3836)**
74VHC00	**Toshiba**	**TC74VHC00**	**(3837)**

TriQuint Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
GA1110E	AMCC	SC1110A	
		SC1110B	
GA1210E	AMCC	SCI210A	
		SC1201A	
		SC1210B	

TRW

Manufacturer Device	Replacement Source	Device	IC Master Page
MPY008	LogicDev	LMU08	
MPY012	LogicDev	LMU12	
MPY016	Cypress	CY7C516	
	IDT	IDT7216	
	LogicDev	LMU16	
		LMU216	
MPY08	LogicDev	LMU8	
MPY08U	LogicDev	LMU8U	
MPY112	LogicDev	LMU112	
OHN3013	Allegro Micro	UGN3113	
OHN3020	Allegro Micro	UGN3120	
OHN3030	Allegro Micro	UGN3130	
OHN3040	Allegro Micro	UGN3140	
OHS3020	Allegro Micro	UGS3120	
OHS3030	Allegro Micro	UGS3130	
OHS3040	Allegro Micro	UGS3140	
OH360	Allegro Micro	UGN3120	
TDC1001	GEC Plessey	ZN448	
TDC1002	GEC Plessey	ZN448	
TDC1009	LogicDev	LMA1009	
		LMA2009	
		LMU2009	
TDC1010	IDT	IDT7210	
	LogicDev	LDI2010	
		LMA1010	
TDC1011	LogicDev	L10C11	
TDC1014	GEC Plessey	ZN440	
TDC1016	GEC Plessey	SP9770	
TDC1018	GEC Plessey	SP97618	
		ZN515	
	Signal Proc	HDAC10180	
TDC1023	LogicDev	L10C23	
TDC1025	GEC Plessey	SP97508	
TDC1029	GEC Plessey	SP9756	
		SP9758	
TDC1030	GEC Plessey	MV66030	
TDC1046	GEC Plessey	ZN440	
TDC1048	IDT	IDT75C48	
TDC1141	**Harris**	**HI20201**	**(3639)**
TDC1334	GEC Plessey	ZN454	
TDC2011	LogicDev	L10C11	
TDC2023	LogicDev	L10C23	
♦ TMC0171	AMD	AM81C471	
♦ TMC0176	AMD	AM81C176	
		AM81C471	
		AM81EC176	
♦ TMC0176	**AD**	**ADV471**	**(3518)**
		ADV476	
♦ TMC0176	Brooktree	BT471	
		BT475	
		BT476	
♦ TMC0176	SGS-Thomson	IMSG171	
		IMSG176	
♦ TMC0176	Sierra	SC11486	
♦ TMC0458	AMD	AM81C458	
	Brooktree	BT458	
	IDT	IDT75C458	
	Samsung	KDA0458	
	TI	TLC34058	
TMC1175	**Harris**	**HI1175**	**(3639)**
		HI1176	**(3639)**
	MicroPwr	MP8785	
TMC1175M7C20	Signal Proc	SPT1175	
TMC2009	LogicDev	LMA1009	
		LMA2009	
		LMU2009	
TMC2010	IDT	IDT7210	
	LogicDev	LDI2010	
		LMA1010	
TMC208K	LogicDev	LMU08	
TMC2109	LogicDev	LMA1009	
		LMA2009	
		LMU2009	
TMC2110	IDT	IDT7210	
	LogicDev	LDI2010	
		LMA1010	
TMC216	Cypress	CY7C516	
	IDT	IDT7216	
	LogicDev	LMU16	
		LMU216	
TMC217	LogicDev	LMU17	
		LMU217	
TMC2210	LogicDev	LDI2010	
		LMA1010	
	Waferscale	WS59510	
TMC2242	LogicDev	LF2242	
TMC2246	LogicDev	LF2246	
TMC2249	LogicDev	LF2249	
TMC2250	LogicDev	LF2250	
TMC28KU	LogicDev	LMU8U	

Unicorn Microelectronics Corp. (UMC)

Manufacturer Device	Replacement Source	Device	IC Master Page
T40992	Samsung	KS5805	
T40993	Samsung	KS5805	
UC493	Linfinity Micro	UC493	
UC6116	Hyundai	HY6116A	
UC621024	Hyundai	HY628100	
UC6264B	Hyundai	HY6264A	
UMC6502	CMD Micro	G65SC02	
UMC6522	CMD Micro	G65SC22	
UMC6532	CMD Micro	G65SC32	
UMC6551	CMD Micro	G65SC51	
UM2148	Hitachi	HM6148	
	Krueger	**2148-35**	**(3663)**
		2148-45	**(3663)**
		2148-55	
		2148-70	**(3663)**
	VLSI Tech	VT20C50	
UM2149	**Krueger**	**2149-35**	**(3663)**
		2149-45	
		2149-55	
		2149-70	**(3663)**
UM23C1024	Hitachi	HN62321	
	Mitsubishi	M5M23C100	
	NEC	μPD23C1000	
		μPD23C1010	
	Samsung	KM23C1000	
	Sharp	LH531000	
	Toshiba	TC531000	
UM23C1025	Hitachi	HN62321	
	NEC	μPD23C1000	
		μPD23C1001	
UM23C128	Mitsubishi	M5M23128	
	NEC	μPD23C128	
	Samsung	KM23128	
	Sharp	LH23126	
UM23C2000	Hitachi	HN62412	
	NEC	μPD23C2000	
	Sharp	LH532000	
UM23C2001	NEC	μPD23C2001	
	Samsung	KM23C2000	
	Sharp	LH532100	
	Toshiba	TC532000	
UM23C256	Hitachi	HN623257	
	Mitsubishi	M5M23256	
	NEC	μPD23C256	
	Samsung	KM23256	
		KM23257	
	Sharp	LH53257	
	Toshiba	TC53257	
UM23C4000	Hitachi	HN62404	
	NEC	μPD23C4000	
	Sharp	LH534000	
	Toshiba	TC534000	
UM23C4001	Hitachi	HN62304	
	Mitsubishi	M5M23C400	
	NEC	μPD23C4001	
	Samsung	KM23C4000	
UM23C512	Samsung	KM23C512	
	Sharp	LH53513	
	Toshiba	TC53512	
UM23C64	Mitsubishi	M5M2364	
	NEC	μPD23C64	
	Samsung	KM2365	
	Sharp	LH2369	
	Toshiba	TC5364	
		TC5365	
UM3128	Samsung	KS6125	
		KS6325	
UM3135	Samsung	KS6326	
UM3219	Samsung	KS5199	
	Sanyo	KS5120	
UM4164	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
UM4503	Cypress	CY7C428	
	IDT	IDT7203	
UM6104	S-MOS	SRM2114	
	Sharp	LH5114H	
UM6114	Krueger	21C14-150	
		21C14-200	
		21C14-450	
UM6116	Cypress	CY7C128	
	Fujitsu	MB8416	
	Hitachi	HM6116	
	IDT	IDT6116	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	MicronSemi	MT5C1608	
	Mitsubishi	M5M5517	
	Mosel-Vitelic	MS6516	
	Motorola	MCM2018	
	NEC	μPD446	
	OKI	MSM5128	
	S-MOS	SRM2016	
	Sharp	LH5116	
	Sony	CXK5814	
		CXK5816	
	Toshiba	TC2018	
		TC5517	
	Vitelic	V61C16	
	VLSI Tech	VT20C19	
UM61165	Mosel-Vitelic	V63C308	
UM61166	IDT	IDT71586	
UM61168	Cypress	CY7C144	
	MicronSemi	MT56C0816	
	Mosel-Vitelic	V63C328	
	Sony	CXK7701	
	Toshiba	TC55187	
		TC55188	
	VLSI Tech	VT62A168	
UM6164	Cypress	CY7C185	
		CY7C186	
	IDT	IDT7164	
	MicronSemi	MT5C6408	
	Motorola	MCM6264	
	Sony	CXK5863	
	Toshiba	TC5588	
		TMM2088	
	Vitelic	V63C64	
	VLSI Tech	VT20C98	
UM6167	Hitachi	HM6167	
	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	Sharp	LH5167	
UM6168	Cypress	CY7C168	
	Hitachi	HM6168	
		HM6268	
	IDT	IDT6168	
	Krueger	2168-20	
		2168-25	
		2168-35	
UM6168	Krueger		(Cont'd)
		2168-45	
		2168-55	
	MicronSemi	MT5C1604	
	Motorola	MCM6268	
	Sony	CXK5416	
	Toshiba	TC2068	
	Vitelic	V61C68	
	VLSI Tech	VT20C69	
UM621024	Hitachi	HM628128	
	Toshiba	TC551001	
UM62256	Fujitsu	MB84256	
	Hitachi	HM62256	
	LogicDev	L7C199	
	Mitsubishi	M5M5256	
	Mosel-Vitelic	MS62256	
	NEC	μPD43256	
	OKI	MSM51257	
	S-MOS	SRM20256	
	Sharp	LH52250AL	
		LH52256	
	Sony	CXK58256	
	Toshiba	TC55257	
UM6264	Fujitsu	MB8464	
	Hitachi	HM6264	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	Mitsubishi	M5M5165	
	Mosel-Vitelic	MS6264	
	NEC	μPD4364	
	OKI	MSM5165	
	S-MOS	SRM2264	
	Sharp	LH5164	
		LH5168	
	Sony	CXK5864	
	Toshiba	TC5563	
UM6264A	Mosel-Vitelic	MS6264A	
		MS6265	
UM6264L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
UM6502	**Rockwell**	**R6502**	**(3759)**
UM6512	**Rockwell**	**R6512**	**(3759)**
UM6522	**Rockwell**	**R6522**	**(3759)**
UM6532	**Rockwell**	**R6532**	**(3759)**
UM6551	American Micro	S6551	
	Rockwell	**R6551**	**(3759)**
UM6845	Hitachi	HD68A45	
		HD68B45	
		HD6845	
	Krueger	6845	
	Rockwell	**R6545**	**(3759)**
UM70C171	SGS-Thomson	IMSG171	
♦ UM74HCT590	Harris	CD74HCT597	
	Philips	74HCT597	
♦ UM74HCT646	GoldStar	GD74HCT646	
	Harris	CD74HCT646	
	Motorola	MC74HCT646	
	Philips	74HCT646	
	SGS-Thomson	M74HCT646	
	TI	SN74HCT646	
	Toshiba	TC74HCT646A	
UM7507	Rockwell	R6507	
UM82C06	Chips&Tech	CS82C206	
UM82C11	Samsung	KS82C411	
UM82C211	Chips&Tech	CS82C211	
UM82C212	Chips&Tech	CS82C212	
UM82C215	Chips&Tech	CS82C215	
UM82C288	Intel	82288	
UM82C451	VLSI Tech	VT16451	
UM82C452	VLSI Tech	VT16452	
UM82C54	Harris	HD82C54	
UM82C55	Harris	HD82C55	
UM82C550	National	NS16550	
UM82C8167	National	NS58167	
UM82C84	Intel	P82284	
	Samsung	KS82C84	
UM82C88	Harris	HD82C88	
	Newbridge	CA82C88	
	Samsung	KS82C88	
UM8237	Intel	P8237	
	Krueger	8237	
	Samsung	KS82C37	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Unicorn Microelectronics Corp. (UMC) (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
UM8237A	Newbridge	CA82C37A	
UM82450	Krueger	16450	
	National	NS16450	
UM8250	**Krueger**	**8250**	**(3663)**
	National	NS8250	
	Samsung	KS82C50	
UM8253	Intel	P8253	
UM8254	Newbridge	CA82C54	
	Samsung	KS82C54	
UM8255	Samsung	KS82C55	
UM8259	Intel	P8259	
	Samsung	KS82C59	
UM8259A	Krueger	8259	
	Newbridge	CA82C59A	
UM8272	Intel	P8272	
	NEC	μPD765	
	Zilog	Z765	
UM8326	SMC	FDC9216	
UM91210	Samsung	KS58004	
		KS58005	
		KS58006	
		KS58007	
		KS5820	
UM91230	S-MOS	S7230	
		S7235	
	Samsung	KS58000	
		KS58001	
		KS58002	
		KS58003	
		KS5819	
UM91260	Samsung	KS5823	
		KS58501	
		KS58502	
		KS58503	
		KS58504	
♦ UM91260	American Micro	S25910	
	Motorola	MC145410	
	National	TP5660	
	S-MOS	STC2580	
	SGS-Thomson	MK5175	
		MK5380	
♦ UM91260	Sharp	LR4803	
UM91261	American Micro	S25910	
	Motorola	MC145410	
	National	TP5660	
	S-MOS	STC2580	
	Samsung	KS5822	
		KS58500	
	SGS-Thomson	MK5175	
		MK5380	
	Sharp	LR4803	
UM91270	ROHM	BU8320	
	Sharp	LR4806	
UM91271	S-MOS	S7241	
	Samsung	KS58528	
		KS58529	
		KS58530	
		KS58531	
		KS58532	
		KS58533	
		KS58534	
		KS58535	
		KS58536	
		KS58537	
		KS58538	
		KS58539	
UM91310	Philips	PCD3310	
UM9151	American Micro	S2560	
	National	TP53144	
		TP53190	
		TP5393	
	Samsung	KS58C05	
		KS58E05	
		KS5851	
		KS5853	
	Sanyo	LC7350	
	SGS-Thomson	MK50981	
		MK50982	
		MK50992	
		MK50993	
	Sharp	LR40992	
		LR90993	
	TI	TCM1101	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
UM91611	National	TP5605	
		TP5615	
	SGS-Thomson	MK5173	
		MK5175	
	Sharp	LR4173	
UM95087	National	TP5087	
	Samsung	KS5809	
	SGS-Thomson	MK5087	
	Sharp	LR4087	
	TI	TCM5087	
UM95088	American Micro	S2859	
		S2860	
	National	TP5395	
	OKI	MSM6224	
	Sanyo	LC7365	
	SGS-Thomson	MK5092	
		MK5094	
		MK5380	
	TI	TCM5092	
UM95089	American Micro	S25089	
	National	TP5089	
	OKI	MSM6234	
	Samsung	KS5808	
	Sanyo	LC7366	
	SGS-Thomson	MK5089	
	Sharp	LR4089	
	TI	TCM5089	
UM9559	American Micro	S2559	
	Samsung	KS5810	
91611	American Micro	S25610	

United Technologies

Manufacturer Device	Replacement Source	Device	IC Master Page
UT63M105	GEC Plessey	CT1487	
UT63M107	GEC Plessey	CT1589	
UT63M115	GEC Plessey	CT1487	
UT63M117	GEC Plessey	CT1589	
UT63M125	GEC Plessey	CT1487	
UT63M127	GEC Plessey	CT1589	
UT63M135	GEC Plessey	CT1487	
UT63M137	GEC Plessey	CT1589	

Unitrode Integrated Circuits

Manufacturer Device	Replacement Source	Device	IC Master Page
LM195	National	LM195	
LT1054	LinearTech	LT1054	
	TI	LT1054	
LT317	LinearTech	LT317	
L293	Allegro Micro	UDN2993	
	National	LM18293	
L295	Allegro Micro	UDN2962	
L296	SGS-Thomson	L296	
L298	Allegro Micro	UDN2998	
	TI	L298	
		TLP298	
PBL3770	Ericsson	PBL3770	
PIC600	Linfinity Micro	SM600	
	Unitrode	PIC7519	
PIC601	Linfinity Micro	SM601	
PIC602	Linfinity Micro	SM602	
PIC610	Linfinity Micro	SM610	
PIC611	Linfinity Micro	SM611	
	Unitrode	PIC7505	
PIC612	Linfinity Micro	SM612	
	Unitrode	PIC7506	
PIC625	Linfinity Micro	SM625	
	Unitrode	PIC7507	
		PIC7525	
PIC626	Linfinity Micro	SM626	
	Unitrode	PIC7508	
		PIC7526	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
PIC627	Linfinity Micro	SM627	
	Unitrode	PIC7509	
		PIC7527	
PIC635	Linfinity Micro	SM635	
PIC636	Linfinity Micro	SM636	
PIC637	Linfinity Micro	SM637	
PIC645	Linfinity Micro	SM645	
PIC646	Linfinity Micro	SM646	
	Unitrode	PIC7514	
		PIC7532	
PIC647	Linfinity Micro	SM647	
	Unitrode	PIC7515	
PIC655	Linfinity Micro	SM655	
PIC656	Linfinity Micro	SM656	
	Toshiba	PIC7517	
	Unitrode	PIC7517	
PIC657	Linfinity Micro	SM657	
	Unitrode	PIC7518	
PIC7501	AD	AD7501	
		MUX08	
	Linfinity Micro	SM600	
	Maxim	AD7501	
	MicroPwr	MP7501	
PIC7502	AD	AD7502	
	Linfinity Micro	SM601	
	MicroPwr	MP7502	
	Toshiba	TA7502	
PIC7503	**Datel**	**MV808**	**(3570)**
	Linfinity Micro	SM602	
	Maxim	AD7503	
	MicroPwr	MP7503	
	Sipex	MUX201	
PIC7504	Fujitsu	MB3609	
	Linfinity Micro	SM610	
	NEC	μPC151	
	Toshiba	TA7504	
PIC7505	Linfinity Micro	SM611	
	Unitrode	PIC611	
PIC7506	Linfinity Micro	SM612	
	Unitrode	PIC612	
PIC7507	Linfinity Micro	SM625	
	Unitrode	PIC625	
		PIC7525	
PIC7508	Linfinity Micro	SM626	
	Unitrode	PIC626	
		PIC7526	
PIC7509	Linfinity Micro	SM627	
	Unitrode	PIC627	
		PIC7527	
PIC7510	AD	AD7510	
		SW7510	
	Linfinity Micro	SM635	
	MicroPwr	MP7510	
	TeledyneC	TSC445	
PIC7511	AD	AD7511	
		AD7590	
		AD7591	
		SW7511	
	Linfinity Micro	SM636	
	MicroPwr	MP7511	
	National	DM7590	
	TeledyneC	TSC445	
PIC7512	AD	AD7512	
		AD7592	
	Linfinity Micro	SM637	
	MicroPwr	MP7512	
	TeledyneC	TSC444	
PIC7513	AD	ADG200	
	Harris	DG200	
		HI200	
	Linfinity Micro	SM645	
	Siliconix	DG200	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
PIC7514	Linfinity Micro	SM646	
	Unitrode	PIC646	
		PIC7532	
PIC7515	Linfinity Micro	SM647	
	Unitrode	PIC647	
PIC7516	Harris	CD4016	
	Linfinity Micro	SM655	
	Motorola	MC14016	
		MC14066	
	National	CD4016	
		CD4066	
		F4016	
		F4066	
	Philips	HEF4016	
		HEF4066	
	SGS-Thomson	HCC4016	
		HCC4066	
		HCF4016	
		HCF4066	
	Toshiba	TC4016	
		TC4066	
PIC7517	Linfinity Micro	SM656	
	Unitrode	PIC656	
PIC7518	Linfinity Micro	SM657	
	Unitrode	PIC657	
PIC7519	Linfinity Micro	SM600	
	Unitrode	PIC600	
PIC7520	Harris	AD7520	
	Linfinity Micro	SM601	
	Maxim	MX7520	
	MicroPwr	MP7520	
	Motorola	MC7520	
	National	AD7520	
		DAC1020	
		DAC1021	
		DAC1022	
		7520	
	Samsung	KA2919	
	Sanyo	LA7520	
PIC7521	Linfinity Micro	SM602	
PIC7522	AD	AD7522	
	Linfinity Micro	SM610	
	MicroPwr	MP7522	
PIC7523	AD	AD7523	
	Datel	DAC7523	
	Harris	AD7523	
	Linfinity Micro	SM611	
	Maxim	MX7523	
	MicroPwr	MP7523	
	Motorola	MC7523	
	National	LM7523	
PIC7524	Linfinity Micro	SM612	
	Motorola	MC7525	
	National	LM7525	
		7525	
PIC7525	Linfinity Micro	SM625	
	Unitrode	PIC625	
		PIC7507	
PIC7526	Linfinity Micro	SM626	
	Unitrode	PIC626	
		PIC7508	
PIC7527	Linfinity Micro	SM627	
	Unitrode	PIC627	
		PIC7509	
PIC7528	Linfinity Micro	SM635	
PIC7529	Linfinity Micro	SM636	
	Motorola	MC7529	
	National	LM7529	
		7529	
PIC7530	Harris	AD7530	
	Linfinity Micro	SM637	
	Maxim	MX7530	
	MicroPwr	MP7530	
	National	AD7530	
	Samsung	KA2923	
	Sanyo	LA7530	

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♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Unitrode Integrated Circuits (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
PIC7531	AD	AD8531	
	Harris	AD7531	
	Linfinity Micro	SM645	
	Maxim	MX7531	
	MicroPwr	MP7531	
	National	AD7531	
PIC7532	Linfinity Micro	SM646	
	Unitrode	PIC646	
		PIC7514	
PIC7533	AD	AD7520	
		AD7530	
		AD7533	
		PM7533	
	Datel	DAC7533	
	Harris	AD7533	
	Linfinity Micro	SM647	
	Maxim	MX7533	
	MicroPwr	MP7533	
		MP7633	
	National	AD7533	
PIC7534	Linfinity Micro	SM655	
PIC7535	Linfinity Micro	SM656	
	Motorola	MC7535	
	National	LM7535	
PIC7536	Linfinity Micro	SM657	
SG2846	Linfinity Micro	SG2846	
SG3526	Linfinity Micro	UC3526	
TL431	TI	TL431	
UCOP01	Harris	CA3140	
UC1054	LinearTech	LT1054	
	TI	LT1054	
UC117	LinearTech	LM117	
		LT117	
	Linfinity Micro	SG117	
	National	µA117	
		LM117	
	TI	TL117	
UC120	Linfinity Micro	SG120	
UC137	LinearTech	LM137	
		LT1033	
		LT137	
	Linfinity Micro	SG137	
	National	LM137	
UC140	Linfinity Micro	SG140	
UC150	LinearTech	LM150	
		LT150	
	Linfinity Micro	SG150	
	National	LM150	
	SemTech	LLM150	
UC1524	Exar	XR1524	
	Harris	CA1524	
	LinearTech	LT1524	
		SG1524	
	Linfinity Micro	SG1524	
	National	µA1524	
		LM1524	
	SGS-Thomson	SG1524	
UC1525	Exar	XR1525	
	LinearTech	LT1525	
		SG1525	
	Linfinity Micro	SG1525	
	Motorola	SG1525	
	TeledyneC	TSC15C25	
	TI	TL1525	
UC1526	LinearTech	LT1526	
	Linfinity Micro	SG1526	
		SG3526	
	Motorola	SG1526	
		SG3526	
	Philips	SG3526	
UC1527	LinearTech	LT1527	
		SG1527	
			(Continued)
UC1527			(Cont'd)
	Linfinity Micro	SG1527	
	Motorola	SG1527	
	SGS-Thomson	SG1527	
	TeledyneC	TSC15C27	
	TI	TL1527	
UC1543	Exar	XR1543	
	Linfinity Micro	SG1543	
UC1544	Linfinity Micro	SG1544	
UC1823	MicroLinear	ML4823	
UC1825	Linfinity Micro	SG1825	
	MicroLinear	ML1825	
		ML4825	
UC1840	Linfinity Micro	SG1840	
	SGS-Thomson	UC1840	
	Unitrode	UC1841	
UC1841	Linfinity Micro	SG1840	
	Unitrode	UC1840	
UC1842	LinearTech	LT1842	
	Linfinity Micro	SG1842	
	Motorola	UC1842	
	SGS-Thomson	UC1842	
	TeledyneC	TSC18C42	
UC1843	LinearTech	LT1843	
	Linfinity Micro	SG1843	
	Motorola	UC1843	
	Unitrode	UC1843	
UC1844	Linfinity Micro	SG1844	
	Motorola	UC1844	
	SGS-Thomson	UC1844	
	TeledyneC	TSC18C44	
UC1845	Linfinity Micro	SG1845	
	Motorola	UC1845	
	TeledyneC	TSC18C45	
		TSC28C45	
UC1846	LinearTech	LT1846	
		UC1846	
	Linfinity Micro	SG1846	
	Siliconix	SG1846	
	TeledyneC	TSC38C46	
UC1847	LinearTech	LT1847	
		UC1847	
	Linfinity Micro	SG1847	
	Siliconix	SG1847	
	TeledyneC	TSC38C47	
UC195	National	LM195	
UC217	Linfinity Micro	SG217	
	National	LM217	
	SGS-Thomson	LM217	
	VTC	VM217	
UC237	Linfinity Micro	SG237	
	National	LM237	
UC250	Linfinity Micro	SG250	
	National	LM250	
UC2524	Exar	XR2524	
	Harris	CA2524	
	LinearTech	LT2524	
		SG2524	
	Linfinity Micro	SG2524	
	National	µA2524	
		LM2524	
	Philips	SG2524	
	SGS-Thomson	SG2524	
	TI	SG2524	
UC2525	Exar	XR2525	
	Harris	HA2525	
	LinearTech	LT2525	
		LT3525	
		SG3525	
	Linfinity Micro	SG2525	
	Motorola	SG2525	
			(Continued)
UC2525			(Cont'd)
	SGS-Thomson	SG2525	
	Sipex	SP2525	
	TeledyneC	TSC25C25	
	TI	SG2525	
		TL2525	
UC2526	LinearTech	LT2526	
	Linfinity Micro	SG2526	
	Motorola	SG2526	
UC2527	Exar	XR2527	
	LinearTech	LT2527	
	Linfinity Micro	SG2527	
	Motorola	SG2527	
	TeledyneC	TSC25C27	
	TI	SG2527	
		TL2527	
UC2540	Linfinity Micro	SG2540	
UC2543	Exar	XR2543	
	Linfinity Micro	SG2543	
UC2544	Linfinity Micro	SG2544	
UC2548	Linfinity Micro	SG2548	
UC2823	MicroLinear	ML4823	
UC2825	Linfinity Micro	SG2825	
	MicroLinear	ML4825	
UC2840	Linfinity Micro	SG2840	
	SGS-Thomson	UC2840	
UC2842	Cherry Semi	CS2842	
	Gennum	LS2842	
	Linfinity Micro	SG2842	
	Motorola	UC2842	
	SGS-Thomson	UC2842	
	TeledyneC	TSC28C42	
	TI	UC2842	
UC2842D14	Cherry Semi	CS2842	
UC2843	Cherry Semi	CS2843	
	Linfinity Micro	SG2843	
	Motorola	UC2843	
	SGS-Thomson	UC2843	
	TeledyneC	TSC28C43	
	TI	UC2843	
UC2843N	Cherry Semi	CS2843	
UC2844	Cherry Semi	UC2844	
	Linfinity Micro	SG2844	
	Motorola	UC2844	
	TeledyneC	TSC28C44	
	TI	UC2844	
UC2845	Linfinity Micro	SG3845	
	Motorola	UC2845	
	TI	UC2845	
UC2846	Linfinity Micro	SG2846	
	TeledyneC	TSC28C46	
	TI	UC2846	
UC2847	Intel	82C57	
	Linfinity Micro	SG2847	
	OKI	MSM82C57	
	TI	UC2847	
UC2950	TI	SN75605	
UC317	LinearTech	LM317	
	Linfinity Micro	SG317	
	Motorola	LM317	
	National	µA317	
		LM317	
	NEC	LM317	
	Samsung	LM317	
	SemTech	LLM317	
	SGS-Thomson	LM317	
	TI	LM317	
UC3175	Allegro Micro	A8958	
UC320	Linfinity Micro	SG320	
UC337	LinearTech	LM337	
		LT1033	
		LT337	
			(Continued)
UC337			(Cont'd)
	Linfinity Micro	SG337	
	Motorola	LM337	
	National	LM337	
	SGS-Thomson	LM337	
	TI	LM337	
UC340	Linfinity Micro	SG340	
	SemTech	LAS1505	
		LAS1512	
		LAS1515	
	Unitrode	UC7812	
UC350	LinearTech	LM350	
		LT350	
	Linfinity Micro	SG350	
	Motorola	LM350	
	National	µA350	
		LM350	
	NEC	LM350	
UC3517	Allegro Micro	UCN5804	
	Ericsson	**PBD3517**	**(3609)**
UC3524	Cherry Semi	CS3524	
	Exar	XR3524	
	Harris	CA3524	
	LinearTech	LT3524	
		SG3524	
	Linfinity Micro	SG3524	
	National	LM3524	
	Philips	SG3524	
	SGS-Thomson	SG3524	
UC3525	Ericsson	RL3525	
	Exar	XR3525	
	LinearTech	LT3525	
		SG3525	
	Linfinity Micro	SG3525	
	Motorola	SG3525	
	Samsung	KA3525	
	SGS-Thomson	SG3525	
	TeledyneC	TSC35C25	
	TI	SG3525	
UC3525AN	Cherry Semi	CS3525	
UC3526	Linfinity Micro	SG3526	
	Motorola	SG3526	
	Philips	SG3526	
	Unitrode	UC3626	
UC3527	Exar	XR3527	
	LinearTech	LT3527	
		SG3527	
	Linfinity Micro	SG3527	
	Motorola	SG3527	
	National	LM3527	
	SGS-Thomson	SG3527	
	TeledyneC	TSC35C27	
	TI	SG3527	
UC3527AN	Cherry Semi	CS3527	
		CS3527AN	
UC3543	Exar	XR3543	
	Linfinity Micro	SG3543	
UC3544	Linfinity Micro	SG3544	
UC3610	Cherry Semi	CS299	
UC3620	Allegro Micro	UDN2936	
UC3626	Unitrode	UC3526	
UC3706	Cherry Semi	CS3706	
UC3717	Allegro Micro	UDN2953	
	Ericsson	PBL3712	
		PBL3717	
	Linfinity Micro	SG3718	
	SGS-Thomson	PBL3717	
UC3770	Allegro Micro	UDN2954	
	Cherry Semi	CS3770	
	Ericsson	PBL3770	
UC3802	ECI Semi	EC3802	
UC3823	MicroLinear	ML4823	
UC3825	Linfinity Micro	SG3825	
	MicroLinear	ML4825	
			(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Unitrode Integrated Circuits (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
UC384	Astec Semi	UC384	
	Fujitsu	MB3769	
UC3840	Linfinity Micro	SG3840	
	SGS-Thomson	UC3840	
UC3842	Astec Semi	UC3842A	
	ECI Semi	EC3842	
	Linfinity Micro	SG3842	
	Micrel	**MIC38C42**	**(3685)**
		MIC38HC42	
	Motorola	UC3842	
	Philips	UC3842	
	Samsung	KA3842	
	SGS-Thomson	UC3842	
	TeledyneC	TSC38C42	
	TI	UC3842	
UC3842A	Astec Semi	UC3842A	
	Micrel	**MIC38C42**	**(3685)**
		MIC38HC42	
UC3842AN	Cherry Semi	CS3842	
UC3843	Astec Semi	UC3843A	
	Cherry Semi	CS3843	
	Linfinity Micro	SG3843	
	Micrel	**MIC38C43**	**(3685)**
		MIC38HC43	
	Motorola	UC3843	
	SGS-Thomson	UC3843	
	TI	UC3843	
UC3843A	Astec Semi	UC3843A	
	Micrel	**MIC38C43**	**(3685)**
		MIC38HC43	
UC3844	Astec Semi	UC3844A	
	Linfinity Micro	SG3844	
	Micrel	**MIC38C44**	**(3685)**
		MIC38HC44	
	Motorola	UC3844	
	TeledyneC	TSC38C44	
	TI	UC3844	
UC3844A	Astec Semi	UC3844A	
	Micrel	**MIC38C44**	**(3685)**
		MIC38HC44	
UC3845	Astec Semi	UC3845A	
	Cherry Semi	CS3845	
	Linfinity Micro	SG3845	
	Micrel	**MIC38C45**	**(3685)**
		MIC38HC45	
	Motorola	UC3845	
	TeledyneC	TSC38C45	
	TI	UC3845	
UC3845A	Astec Semi	UC3845A	
	Micrel	**MIC38C45**	**(3685)**
		MIC38HC45	
UC3846	LinearTech	LT3846	
		UC3846	
	Linfinity Micro	SG3846	
	Siliconix	SG3846	
	TeledyneC	TSC38C46	
	TI	UC3846	
UC3847	LinearTech	LT3847	
		UC3847	
	Linfinity Micro	SG3847	
	Siliconix	SG3847	
	TI	UC3847	
UC3852	ECI Semi	EC3852	
		3852	
UC3854	ECI Semi	EC3854	
		3854	
UC3903	Allegro Micro	ULN8130	
UC494	Fujitsu	MB3759	
	GoldStar	GL494	
	Motorola	TL494	
		TL594	
	National	µA494	
		LM494	
	TI	TL494	
	Toshiba	TA76494	
UC494A	Fujitsu	MB3759	
UC495	TI	TL495	
		TL594	
		TL595	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
UC5170	Philips	NE5170	
UC5180	Philips	NE5180	
UC7805	Linfinity Micro	SG7805	
	Motorola	MC7805	
	National	µA7805	
		LM7805	
	SemTech	LAS1505	
	TI	µA7805	
UC7812	Linfinity Micro	SG340	
		SG7812	
	Motorola	LM340	
	Samsung	KA340	
	SemTech	LAS1512	
	TI	µA7812	
	Unitrode	UC340	
UC7815	Linfinity Micro	SG7815	
	Motorola	MC7815	
	National	µA7815	
		LM7815	
	SemTech	LAS1515	
	TI	µA7815	
UC7905	Linfinity Micro	SG7905	
	Motorola	MC7905	
	National	µA7905	
		LM7905	
		MC7905	
	TI	µA7905	
UC7912	Linfinity Micro	SG7912	
	TI	µA7912	
UC7915	Linfinity Micro	SG7915	
	Motorola	MC7915	
	National	µA7915	
		LM7915	
	TI	µA7915	

Universal Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
SD5000	Siliconix	SD5000	
SD5001	Siliconix	SD5001	
SD5002	Siliconix	SD5002	
SD5100	Siliconix	SD5100	
SD5200	Siliconix	SD5200	
SD5400	Siliconix	SD5400	
SD5401	Siliconix	SD5401	
SD5402	Siliconix	SD5402	
USC1843	Sierra	SC11456	
USC1850	Sierra	SC11401	
		SC11402	
		SC11403	
		SC11404	
USC1852	Sierra	SC11401	
		SC11402	
		SC11403	
		SC11404	
USC1863	Sierra	SC11457	
USH5007	AT&T	AN0130	
	Supertex	AN0110	
		AN0120	
		AN0130	
USH5008	Supertex	HV16	
USH5021	Supertex	HV21	
USH5022	Supertex	HV22	
USH5501	AT&T	LH1056	
		LH1156	
US74HCT640	Harris	CD74HCT640	
	Mitsubishi	M74HCT640-1	
	Motorola	MC74HCT640A	
	National	MM74HCT640	
	Philips	74HCT640	
	SGS-Thomson	M74HCT640	
	TI	SN74HCT640	
	Toshiba	**TC74HCT640A**	**(3836)**
US74HC153	GoldStar	GD74HC153	
	Harris	CD74HC153	
	Motorola	MC74HC153	
	National	MM74HC153	
	Philips	74HC153	
	SGS-Thomson	M74HC153	
	TI	SN74HC153	
	Toshiba	**TC74HC153A**	**(3836)**
US74HC154	GoldStar	GD74HC154	
	Harris	CD74HC154	
	Motorola	MC74HC154	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
US74HC154			(Cont'd)
	National	MM74HC154	
	Philips	74HC154	
	SGS-Thomson	M74HC154	
	TI	SN74HC154	
	Toshiba	**TC74HC154A**	**(3836)**
US74HC157	GoldStar	GD74HC157	
	Harris	CD74HC157	
	Motorola	MC74HC157A	
	National	MM74HC157	
	Philips	74HC157	
	SGS-Thomson	M74HC157	
	TI	SN74HC157	
	Toshiba	**TC74HC157A**	**(3836)**
US74HC158	GoldStar	GD74HC158	
	Harris	CD74HC158	
	National	MM74HC158	
	Philips	74HC158	
	SGS-Thomson	M74HC158	
	TI	SN74HC158	
	Toshiba	**TC74HC158A**	**(3836)**
US74HC160	GoldStar	GD74HC160	
	Harris	CD74HC160	
	Mitsubishi	M74HC160	
	Motorola	MC74HC160	
	National	MM74HC160	
	Philips	74HC160	
	SGS-Thomson	M74HC160	
	TI	SN74HC160	
	Toshiba	**TC74HC160A**	**(3836)**
US74HC161	GoldStar	GD74HC161	
	Harris	CD74HC161	
	Motorola	MC74HC161A	
	National	MM74HC161	
	Philips	74HC161	
	SGS-Thomson	M74HC161	
	TI	SN74HC161	
	Toshiba	**TC74HC161A**	**(3836)**
US74HC162	GoldStar	GD74HC162	
	Harris	CD74HC162	
	Mitsubishi	M74HC162	
	Motorola	MC74HC162	
	National	MM74HC162	
	Philips	74HC162	
	SGS-Thomson	M74HC162	
	TI	SN74HC162	
	Toshiba	**TC74HC162A**	**(3836)**
US74HC163	GoldStar	GD74HC163	
	Harris	CD74HC163	
	Motorola	MC74HC163A	
	National	MM74HC163	
	Philips	74HC163	
	SGS-Thomson	M74HC163	
	TI	SN74HC163	
	Toshiba	**TC74HC163A**	**(3836)**
US74HC164	GoldStar	GD74HC164	
	Harris	CD74HC164	
	Motorola	MC74HC164	
	National	MM74HC164	
	Philips	74HC164	
	SGS-Thomson	M74HC164	
	TI	SN74HC164	
	Toshiba	**TC74HC164A**	**(3836)**
US74HC165	GoldStar	GD74HC165	
	Harris	CD74HC165	
	Motorola	MC74HC165	
	National	MM74HC165	
	Philips	74HC165	
	SGS-Thomson	M74HC165	
	TI	SN74HC165	
	Toshiba	**TC74HC165A**	**(3836)**
US74HC173	GoldStar	GD74HC173	
	Harris	CD74HC173	
	Motorola	MC74HC173	
	National	MM74HC173	
	Philips	74HC173	

(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page
US74HC173			(Cont'd)
	SGS-Thomson	M74HC173	
	TI	SN74HC173	
	Toshiba	**TC74HC173A**	**(3836)**
US74HC174	GoldStar	GD74HC174	
	Harris	CD74HC174	
	Motorola	MC74HC174A	
	National	MM74HC174	
	Philips	74HC174	
	SGS-Thomson	M74HC174	
	TI	SN74HC174	
	Toshiba	**TC74HC174A**	**(3836)**
US74HC175	GoldStar	GD74HC175	
	Harris	CD74HC175	
	Motorola	MC74HC175	
	National	MM74HC175	
	Philips	74HC175	
	SGS-Thomson	M74HC175	
	TI	SN74HC175	
	Toshiba	**TC74HC175A**	**(3836)**
US74HC190	GoldStar	GD74HC190	
	Harris	CD74HC190	
	Mitsubishi	74HC190	
	National	MM74HC190	
	Philips	74HC190	
	SGS-Thomson	M74HC190	
	TI	SN74HC190	
	Toshiba	**TC74HC190A**	**(3836)**
US74HC191	GoldStar	GD74HC191	
	Harris	CD74HC191	
	Mitsubishi	M74HC191	
	National	MM74HC191	
	Philips	74HC191	
	SGS-Thomson	M74HC191	
	TI	SN74HC191	
	Toshiba	**TC74HC191A**	**(3836)**
US74HC192	GoldStar	GD74HC192	
	Harris	CD74HC192	
	Mitsubishi	M74HC192	
	National	MM74HC192	
	Philips	74HC192	
	SGS-Thomson	M74HC192	
	TI	SN74HC192	
	Toshiba	**TC74HC192A**	**(3836)**
US74HC193	Harris	CD74HC193	
	Mitsubishi	M74HC193	
	National	MM74HC193	
	Philips	74HC193	
	SGS-Thomson	M74HC193	
	TI	SN74HC193	
	Toshiba	**TC74HC193A**	**(3836)**
US74HC194	Harris	CD74HC194	
	Mitsubishi	M74HC194	
	Motorola	MC74HC194	
	National	MM74HC194	
	Philips	74HC194	
	SGS-Thomson	M74HC194	
	TI	SN74HC194	
	Toshiba	**TC74HC194A**	**(3836)**
US74HC195	Harris	CD74HC195	
	Mitsubishi	M74HC195	
	Motorola	MC74HC195	
	National	MM74HC195	
	Philips	74HC195	
	SGS-Thomson	M74HC195	
	TI	SN74HC195	
	Toshiba	**TC74HC195A**	**(3836)**
US74HC20	GoldStar	GD74HC20	
	Harris	CD74HC20	
	Mitsubishi	M74HC20	
	Motorola	MC74HC20	
	National	MM74HC20	
	Philips	74HC20	
	SGS-Thomson	M74HC20	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Universal Semiconductor (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
US74HC20			(Cont'd)
	TI	SN74HC20	
	Toshiba	**TC74HC20A**	**(3836)**
US74HC21	GoldStar	GD74HC21	
	Harris	CD74HC21	
	Philips	74HC21	
	SGS-Thomson	M74HC21	
	TI	SN74HC21	
	Toshiba	**TC74HC21A**	**(3836)**
US74HC221	GoldStar	GD74HC221	
	Harris	CD74HC221	
	National	MM74HC221A	
	Philips	74HC221	
	SGS-Thomson	M74HC221	
		M74HC221A	
	Toshiba	**TC74HC221A**	**(3836)**
VM55C104K36	TI	TM256BK36B	
VM55C1042K36	TI	TM512LBK36B	
		TM512LBK36C	
V51C104	GoldStar	GM71C4256	
V52C256	Krueger	62256-070	
		62256-085	
		62256-100	
		62256-120	
V5264	Krueger	4164-100	
		4164-120	**(3663)**
		4164-150	**(3663)**
V53C100	Hyundai	HY531000	
	Toshiba	TC511000	
		TC511000B	
V53C102	Toshiba	TC511002	
V53C104	Hyundai	HY534256	
	Toshiba	TC514256	
		TC514256B	
V53C105	Toshiba	TC514266	
		TC514266B	
V53C106	Toshiba	TC514258	
		TC514258B	
V53C256	GoldStar	GM71C256	
		GM71256	
	Hyundai	HY53C256	
	Krueger	41256-080	
		41256-100	**(3663)**
		41256-120	**(3663)**
		41256-150	**(3663)**
V53C261	GoldStar	GM53C261	
	Krueger	4461-100	
		4461-120	
		4461-150	
V53C400	Hyundai	HY514100	
	Toshiba	TC514100	
V53C404	Hyundai	HY514400	
	Toshiba	TC514400	
V53C461	GoldStar	GM53C461	
V53C464	GoldStar	GM71C464	
	Hyundai	HY53C464	
	Krueger	**41464-100**	**(3663)**
		41464-120	**(3663)**
		41464-150	**(3663)**
V56C100	TI	TMS4C1024	
V6C328	Toshiba	TC55188	
V6C330	Toshiba	TC55187	
V61C16	GoldStar	GM76C28	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
	UMC	UM6116	
V61C62	LogicDev	L7C166	
	Toshiba	TC55416	
V61C64	Krueger	6264-025	
		6264-035	
		6264-045	
		6264-100	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
V61C67	Krueger	2167-35	
		2167-45	
		2167-55	
		2167-70	
	SGS-Thomson	IMS1403	
	Sharp	LH5167	
V61C68	SGS-Thomson	IMS1423	
	UMC	UM6168	
V62C256	GoldStar	GM76C256	
	SGS-Thomson	MK4832	
	Toshiba	TC55257	
V62C64	GoldStar	GM76C88	
	Krueger	**6264-100**	**(3663)**
		6264-120	**(3663)**
		6264-150	**(3663)**
	SGS-Thomson	MK48H64	
V62C64-L	Krueger	6264L-120	
		6264LP-100	**(3663)**
		6264LP-120	**(3663)**
		6264LP-150	**(3663)**
V62C68	SGS-Thomson	MK41H68	
V63C328	Samsung	KM78C80	
V63C64	Toshiba	TC5588	
	UMC	UM6164	
V63C70	Toshiba	TC55465	
V63C71	Toshiba	TC55464	

Vitesse Semiconductor

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ VS12G422T	AMD	AM93422	
	Cypress	CY93422	
	Motorola	MCM93L422	
	National	93422	
	Performance	P4C422	

VLSI Technology

Manufacturer Device	Replacement Source	Device	IC Master Page
VL16C452	Samsung	KS82C452	
	Startech	ST16C452	
VL16C550	Startech	ST16C550	
VL16C552	Startech	ST16C552	
VL2010	LogicDev	LDI2010	
		LMA1010	
VL2793	Siemens	SAB2793	
VL2797	Siemens	SAB2797	
VL65C22	**Rockwell**	**R6522**	**(3759)**
VL65NC22	Rockwell	R65NC22	
VL6551	**Rockwell**	**R6551**	**(3759)**
VL6765	Krueger	765	
VL82C37	Harris	82C37	
VL82C50	Harris	82C50	
VL82C54	Harris	82C54	
VL82C59	Harris	82C59	
VL82C84	Harris	82C84	
VL82C88	Harris	82C88	
VL85C30	Zilog	Z85C30	
VM009A-80	Newbridge	CA95C18	
VM009A-86	Newbridge	CA95C68	
VM27C256	SEEQ	27C256	
VT16H4	LogicDev	L7C161	
VT16451	UMC	UM82C451	
VT16452	UMC	UM82C452	
VT20C18	Cypress	CY7C128	
	Krueger	**6116-120**	**(3663)**
		6116-150	**(3663)**
		6116-200	**(3663)**
	LogicDev	L6116	
VT20C19	Cypress	CY7C128	
	LogicDev	L6116	
	UMC	UM6116	
VT20C50	SGS-Thomson	IMS1423	
		MK41H68	
	UMC	UM2148	
VT20C68	Cypress	CY7C168	
	MicronSemi	MT5C1604	
	SGS-Thomson	IMS1423	
		MK41H68	
VT20C69	Cypress	CY7C169	
	MicronSemi	MT5C1604	
	SGS-Thomson	IMS1423	
		MK41H68	
	UMC	UM6168	
VT20C71	Cypress	CY7C171	
VT20C72	Cypress	CY7C172	
VT20C78	Cypress	CY7C170	
	LogicDev	L7C170	
	MicronSemi	MT5C1605	
VT20C79	Cypress	CY7C170	
	MicronSemi	MT5C1605	
VT20C8	MicronSemi	MT5C6408	
VT20C9	MicronSemi	MT5C6408	
VT20C98	Cypress	CY7C185	
	UMC	UM6164	
VT20C99	Cypress	CY7C185	
	Toshiba	TC5588	
VT2069	LogicDev	L7C168	
VT2130	Cypress	CY7C130	
VT27C128	TI	TMS27C128	
		TMS27PC128	
VT27C256	Krueger	27C256-150	
		27C256-200	
		27C256-250	
VT27C512	Krueger	27C512-150	
		27C512-200	
		27C512-250	
VT27C64	Krueger	27C64-200	
		27C64-250	
		27C64-300	
VT62A168	Mosel-Vitelic	V63C328	
	Toshiba	TC55188	
	UMC	UM61168	
VT62A188	Toshiba	TC55187	
VT62K54	SGS-Thomson	IMS1620	
VT6208	Toshiba	TC55464	
VT624256	MicronSemi	MT5C1005	
VT62832	MicronSemi	MT5C2568	
	Sharp	LH52258	
	Toshiba	TC55328	
VT6287	Cypress	CY7C187	
VT6288	Cypress	CY7C164	
	MicronSemi	MT5C6404	
VT6289	Cypress	CY7C166	
	MicronSemi	MT5C6405	
VT64KS4	Cypress	CY7C164	
	LogicDev	L7C164	
	Performance	P4C188	
	Toshiba	TC55416	
VT65KS4	Cypress	CY7C166	
	LogicDev	L7C166	
	Performance	P4C198	
	Toshiba	TC55417	
VT7132	Cypress	CY7C132	
VT7142	Cypress	CY7C142	
20C18	Performance	P4C116	
20C68	Krueger	2168-20	
		2168-25	
		2168-35	
		2168-45	
		2168-55	
	Performance	P4C168	
20C69	Performance	P4C169	
20C79	Performance	P4C170	
20C98	Performance	P4C164	
7C122	Performance	P4C422	

VTC

Manufacturer Device	Replacement Source	Device	IC Master Page
VA033	**Burr-Brown**	**OPA633**	**(3459)**
VJ54FCT240	IDT	IDT54FCT240	
VJ54FCT244	IDT	IDT54FCT244	
VJ54FCT245	IDT	IDT54FCT245	
VJ54FCT373	IDT	IDT54FCT373	
		IDT54FCT374	
VJ54FCT533	IDT	IDT54FCT533	
VJ54FCT534	IDT	IDT54FCT534	
VJ54FCT573	IDT	IDT54FCT573	
VJ54FCT574	IDT	IDT54FCT574	
VJ54FCT640	IDT	IDT54FCT640	
VJ54FCT645	IDT	IDT54FCT645	
VJ54FCT821	IDT	IDT54FCT821	
VJ54FCT823	IDT	IDT54FCT823	
VJ54FCT824	IDT	IDT54FCT824	
VJ54FCT825	IDT	IDT54FCT825	
VJ54FCT827	IDT	IDT54FCT827	
VJ54FCT843	IDT	IDT54FCT843	
VJ54FCT844	IDT	IDT54FCT844	
VJ54FCT845	IDT	IDT54FCT845	
VJ54FCT861	IDT	IDT54FCT861	
VJ54FCT863	IDT	IDT54FCT863	
VJ54FCT864	IDT	IDT54FCT864	
VM101	Cherry Semi	CS101A	
VM116	Cherry Semi	CS116	
VM117	Cherry Semi	CS117	
	MicroLinear	ML117	
VM117-2	MicroLinear	ML117-2C	
VM117-4	MicroLinear	ML117-4C	
VM117-6	MicroLinear	ML117-6C	
VM117R-2C	MicroLinear	ML117R-2C	
VM117R-4	MicroLinear	ML117R-4C	
VM117R-6	MicroLinear	ML117R-6C	
VM201	Cherry Semi	CS201	
VM217	MicroLinear	ML501	
	Unitrode	UC217	
VM217-6	MicroLinear	ML501-6C	
VM217-8	MicroLinear	ML501-8C	
♦ V54ACT620	Harris	CD54ACT623	
♦ V54ACT645	National	54ACT646	
♦ V54ACT824	National	54ACT823	
♦ V54ACT826	National	54ACT825	
♦ V54ACT828	National	54ACT827	
♦ V54ACT844	National	54ACT843	
♦ V54ACT846	National	54ACT845	
V54FCT240	IDT	IDT74FCT240	
V54FCT245	IDT	IDT74FCT245	
V54FCT373	IDT	IDT74FCT373	
V54FCT374	IDT	IDT74FCT374	
V54FCT533	IDT	IDT74FCT533	
V54FCT534	IDT	IDT74FCT534	
V54FCT573	IDT	IDT74FCT573	
V54FCT574	IDT	IDT74FCT574	
V54FCT640	IDT	IDT74FCT640	
V54FCT645	IDT	IDT74FCT645	
V54FCT821	IDT	IDT74FCT821	
V54FCT823	IDT	IDT74FCT823	
V54FCT824	IDT	IDT74FCT824	
V54FCT825	IDT	IDT74FCT825	
V54FCT827	IDT	IDT74FCT827	
V54FCT841	IDT	IDT74FCT841	
V54FCT843	IDT	IDT74FCT843	
V54FCT844	IDT	IDT74FCT844	
V54FCT845	IDT	IDT74FCT845	
V54FCT8461	IDT	IDT74FCT861	
V54FCT8615	IDT	IDT74FCT861	
V54FCT863	IDT	IDT74FCT863	
V54FCT864	IDT	IDT74FCT864	
♦ V74ACT623	Harris	CD74ACT623	
	Motorola	MC74ACT620	
		MC74ACT623	
♦ V74ACT645	Motorola	MC74ACT643	
♦ V74ACT824	Motorola	MC74ACT825	
	National	74ACT825	
	Toshiba	**TC74ACT825**	**(3836)**
♦ V74ACT826	National	74ACT827	
♦ V74ACT828	National	74ACT841	
	Toshiba	**TC74ACT841**	**(3836)**
♦ V74ACT844	Motorola	MC74ACT845	
	National	74ACT845	
♦ V74ACT846	National	74ACT85	
V74FCT240	IDT	IDT74FCT240	
V74FCT244	IDT	IDT74FCT244	
V74FCT245	IDT	IDT74FCT245	
V74FCT373	IDT	IDT74FCT373	
V74FCT374	IDT	IDT74FCT374	
V74FCT533	IDT	IDT74FCT533	
V74FCT534	IDT	IDT74FCT534	
V74FCT573	IDT	IDT74FCT573	
V74FCT574	IDT	IDT74FCT574	
V74FCT640	IDT	IDT74FCT640	
V74FCT645	IDT	IDT74FCT645	
V74FCT821	IDT	IDT74FCT821	
V74FCT823	IDT	IDT74FCT823	
V74FCT824	IDT	IDT74FCT824	
V74FCT825	IDT	IDT74FCT825	
V74FCT827	IDT	IDT74FCT827	
V74FCT841	IDT	IDT74FCT841	
V74FCT843	IDT	IDT74FCT843	
V74FCT844	IDT	IDT74FCT844	
V74FCT845	IDT	IDT74FCT845	
V74FCT861	IDT	IDT74FCT861	
V74FCT863	IDT	IDT74FCT863	
V74FCT864	IDT	IDT74FCT864	

Waferscale Integration

Manufacturer Device	Replacement Source	Device	IC Master Page
WS27C010	AMD	AM27C010	
		AM27010	
	Hitachi	HN27C101	
		HN27C301	
	Intel	27010	
	Microchip	27C1024	
	National	NMC27C1023	
	TI	TMS27C010A	
		TMS27PC010A	
WS27C128	AMD	AM27C128	
	Hitachi	HN27C128	
	Intel	27C128	
	Mitsubishi	M27C512	
		M5L27C128	
	TI	SMJ27C128	
		TMS27C128	
WS27C128-12DMB	TI	SMJ27C128-12	

(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Waferscale Integration (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
WS27C128-15DMB	TI	SMJ27C128-15	
WS27C210	AMD	AM27C1024	
	Intel	27210	
	National	NMC27C1024	
	NEC	μPD27C1024	
	TI	TMS27C210A	
		TMS27PC210A	
WS27C256	AMD	AM27C256	
	Allegro Micro	SCM27C256	
	ATMEL	AT27C256	
	Fujitsu	MBM27C256	
	Hitachi	HN27C256	
	Intel	27C256	
	Krueger	27C256-150	
		27C256-200	
		27C256-250	
	Microchip	RO9256	
		27C256	
		27256	
	Mitel	M27C256	
		M27256	
		M5L27256	
	Mitsubishi	M5L27256	
	National	NMC27C256	
		VM27C256	
	NEC	M27C256	
	OKI	MSM27C256	
	SEEQ	27C256	
	SGS-Thomson	TS27C256	
	TI	SMJ27C256	
		TMS27C256	
	Toshiba	TMM27256	
WS27C256-15DMB	TI	SMJ27C256-15	
WS27C512	AMD	AM27C512	
		AM27512	
	ATMEL	AT27C512	
	Fujitsu	MBM27C512	
	Hitachi	HN27512	
	Intel	27512	
	Microchip	27C512	
	National	NMC27C512	
	NEC	μPD27C512	
	OKI	M27512	
	Philips	27C512	
	TI	SMJ27C512	
	Toshiba	TMM27512	
WS27C64	AMD	AM27C64	
	Krueger	27C64-200	
		27C64-250	
		27C64-300	
WS29C01	Cypress	CY7C901	
WS57C128	Cypress	CY7C251	
WS57C128F	TI	TMS27C128	
		TMS27PC128	
WS57C191	AMD	AM27S191	
		63S1681	
	ATMEL	AT27HC191	
	Cypress	CY7C292	
		CY7C292A	
	Fujitsu	MBH38	
		MB71A38	
		MB7138	
	Harris	HM76161	
	Hitachi	HN25169	
	Motorola	MCM76	
	National	DM87SR191	
		DM87SR193	
		93Z511	
	NEC	μPB429	
	Philips	N82S191	
		N82S191A	
	Raytheon	29683	
	SEEQ	39C16	
	SGS-Thomson	JBP38S165	
	Sharp	LH57191	
	TI	TMS27C291	
		38S165	
WS57C251	TI	TMS27C128	
		TMS27PC128	
WS57C256	ATMEL	AT27HC256	
	Catalyst Semi	CAT27HC256	
	Cypress	CY7C274	
	NEC	μPD27C256	
	OKI	MSM27C256	
	Philips	27C256	
	SEEQ	27C256	
		27256	
	Sharp	LH57256	
WS57C256F	TI	TMS27C256	
		TMS27PC256	
WS57C291	AMD	AM27C191	
		AM27C291	
		AM27S291	
		63S1681	
		631681	
	ATMEL	AT27HC291	
	Cypress	CY7C291	
		CY7C291A	
	EXEL	46C16	
	Fujitsu	MBH38	
		MB71A38	
		MB7138	
	Hitachi	HN25169	
	Motorola	MCM76160	
		MCM76161	
	National	DM87S291	
		93Z510	
		93Z511	
		93Z512	
	NEC	μPB429	
	Philips	N82S191	
	Raytheon	29681	
	SEEQ	36S16	
	SGS-Thomson	JBP38S165	
	TI	TMS27C292	
		38S165	
WS57C43	AMD	AM27PS43	
		AM27S43	
		AM27S43A	
		53S3281	
		63S3281	
	Fujitsu	MB7142	
		MB7143	
		MB7144	
	ICT	27CX322	
	National	DM77S321	
		DM87S321	
		87S321	
	Philips	N82HS321	
	Raytheon	29671	
	SEEQ	36C32	
WS57C45	AMD	AM27S45	
	Cypress	CY7C245	
		CY7C245A	
	Fujitsu	MB7238	
WS57C49	AMD	AM27C49	
		AM27S49	
	ATMEL	AT27HC641	
		AT27HC642	
	Cypress	CY7C261	
		CY7C263	
		CY7C264	
	Fujitsu	MB71C44	
		MB7143	
		MB7144	
	Harris	HM76641	
	ICT	27CX642	
	Microchip	27HC641	
	National	93Z565	
		93Z665	
		93Z667	
	NEC	27HC65	
	Philips	N82HS641	
		N82S641	
		27HC641	
		27HC642	
	Raytheon	39VP864	
	Sharp	LH5749	
		SH5762	
	SiliconSys	SSI1203	
	TI	TMS27PC49	
		TMS278C49	
WS57C51	AMD	AM27S51	
		AM27S51A	
	Cypress	CY7C251	
		CY7C253	
		CY7C254	
		CY7C255	
	Fujitsu	MB71C46	
	Philips	N82HS1281	
	Sharp	LH57127	
WS57C64	ATMEL	AT27HC64	
	Cypress	CY7C266	
	GoldStar	GL3620	
		GM27HC64	
	Microchip	27HC64	
	Sanyo	LA7620	
	SEEQ	2764	
	Sharp	LH5763	
WS57C71	Cypress	CY7C271	
WS5901	AMD	AM2901	
	IDT	IDT39C01	
	LogicDev	L429C01	
	National	29F01	
WS59016	AMD	AM29C101	
	Cypress	CY7C9101	
	IDT	IDT49C401	
WS5910	AMD	AM2910	
	Cypress	CY7C910	
WS5910A	Cypress	CY7C910	
WS59510		WTL1010	
		WTL2010	
		WTL2245	
	AMD	AM29L510	
		AM29510	
	AD	ADSP1010	
	Harris	HMA510	
	IDT	IDT39C10	
		IDT4210	
	Intel	1M29C510	
	LogicDev	LMA1010	
		LMA2010	
	LSI Logic	L64010	
		L64012	
	National	29F10	
	TI	SN74HCT9510	
		TICPAL1010	
	TRWLSI	TMC2210	
WS59516	Cypress	CY7C516	
WS59517	Cypress	CY7C516	
WS59520	AMD	AM29520	
		AM29521	
	Harris	**HSP9520**	**(3637)**
	IDT	29FCT521	
	LogicDev	L29C520	
		L29C521	
WS59521	AMD	AM29520	
		AM29521	
	Harris	**HSP9521**	**(3637)**
	IDT	29FCT521	
	LogicDev	L29C520	
		L29C521	

Western Design Center

Manufacturer Device	Replacement Source	Device	IC Master Page
♦ W65C02S	CMD Micro	W65C02	
	Rockwell	W65C02	
♦ W65C22S	CMD Micro	W65C22	
	Rockwell	W65C22	
	VLSI Tech	W65C22	
♦ W65C802S	CMD Micro	W65C802	
♦ W65C816	CMD Micro	W65C816	
♦ W65C816S	CMD Micro	W65C816	

Western Digital

Manufacturer Device	Replacement Source	Device	IC Master Page
FD1797	SMC	FDC9797	
FD9216	SMC	FDC92C36	
		FDC9216	
SD1933	SMC	COM5025	
TR1602	SMC	COM8017	
TR1983	SMC	COM8251	
WD1100	SMC	HDC1100	
WD16C452	Samsung	KS82C452	
	Startech	ST16C452	
WD16C550	Startech	ST16C550	
WD16C552	Startech	ST16C552	
WD1933	Krueger	1933	
WD1941	SMC	COM8116	
		COM8136	
WD1943	SMC	COM8116	
		COM8136	
WD1945	SMC	COM8116	
		COM8136	
WD20C03A	Newbridge	CA20C03	
WD2793A-02	Siemens	SAB2793	
WD2797A02	Siemens	SAB2797	
WD33C93A	AMD	AM33C93A	
WD37C65	Krueger	37C65	
	SMC	FDC37C65	
WD42C22	Krueger	42C22	
WD50C12	Krueger	50C12	
WD82C50	Harris	82C50	
WD8250	**Krueger**	**8250**	**(3663)**

XECOM, INC.

Manufacturer Device	Replacement Source	Device	IC Master Page
XE0002	Cermetek	CH1816	
XE0004	Cermetek	CH1816	

Xicor

Manufacturer Device	Replacement Source	Device	IC Master Page
XM28C010	Dense-Pac	DPE51288	
	SEEQ	M28C010	
X2210	Catalyst Semi	CAT22C10	
X2212	Catalyst Semi	CAT22C12	
X24C04	NEC	μPD28C04	
X2444	Catalyst Semi	CAT22C44	
X28C010	SEEQ	28C010	
X28C04	Ramtron	FM24C04	
X28C16	EXEL	XL28C16	
X28C256	Microchip	28C256	
	NEC	μPD28C256	
	OKI	MSM28C256	
	SEEQ	28C256	
X28C64	EXEL	XL28C64	
	Microchip	28C64	
	NEC	μPD28C64	
	OKI	MSM28C64	
	Ramtron	FM1608S	
X2804	EXEL	XL2804	
	Microchip	28C04	
	SEEQ	2804	
X2804A	Ramtron	FM1208S	
X2816	Catalyst Semi	CAT28C16	
	EXEL	XL2816	
	Microchip	28C16	
	OKI	MSM28C16	
	Ramtron	FM1408S	
	Samsung	KM28C16	
	SEEQ	2816	
X28256	Samsung	KM28C256	
	SEEQ	28C256	
X2864	Catalyst Semi	CAT28C64	
	EXEL	XL2864	
	Microchip	28C64	
	Samsung	KM28C64	
	SEEQ	28C64	
X2864A	Fujitsu	MBM28C64	
28C256	Samsung	KM28C256	

Xilinx

Manufacturer Device	Replacement Source	Device	IC Master Page
XC2018	AMD	AM2018	
	ILSI	CME1202	
XC2064	ILSI	CME1202	
XC3020	AT&T	ATT3020	
	ILSI	CME1202	
XC3030	AT&T	ATT3030	
	ILSI	CME1202	
		CME1204	
XC3042	AT&T	ATT3042	
	ILSI	CME1204	
XC3064	AT&T	ATT3064	
	ILSI	CME1204	
XC3090	AT&T	ATT3090	
	ILSI	CME1204	

Zilog

Manufacturer Device	Replacement Source	Device	IC Master Page
Z05380	NCR	NCR5380	
Z0765	Krueger	765	
Z0765A	Intel	8272A	
Z08001	SGS-Thomson	Z8001	
Z08002	SGS-Thomson	Z8002	
Z08030	SGS-Thomson	Z8030	
Z08038	SGS-Thomson	Z8038	
Z08060	SGS-Thomson	Z8060	
Z0836	SGS-Thomson	Z8036	
Z08400	NEC	μPD780	
	Sharp	LH0080	
Z08410	Sharp	LH0083	
Z08420	Sharp	LH0081	
Z08430	Sharp	LH0082	
Z0844X	Sharp	LH008X	

(Continued)

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Zilog (Cont'd)

Manufacturer Device	Replacement Source	Device	IC Master Page
Z08530	AMD	Z8530	
	SGS-Thomson	Z8530	
Z08536	SGS-Thomson	Z8536	
Z08601	SGS-Thomson	Z8601	
Z08603	SGS-Thomson	Z86E11	
Z08611	SGS-Thomson	Z8611	
Z08671	SGS-Thomson	Z8671	
Z08681	SGS-Thomson	Z8681	
Z765	UMC	UM8272	
Z8	Hitachi	HD6301	
		HD647180	
Z80CPU	Krueger	Z80CPU	
Z80CTC	**Krueger**	**Z80CTC**	**(3663)**
Z80DART	**Krueger**	**Z80DART**	**(3663)**
Z80DMA	**Krueger**	**Z80DMA**	**(3663)**
Z80PIO	Krueger	Z80PIO	
Z80SIO/0	Krueger	Z80SIO/0	
Z80SIO/1	Krueger	Z80SIO/1	
Z80SIO/2	Krueger	Z80SIO/2	
Z80SIO/9	Krueger	Z80SIO/9	
Z80180	Hitachi	HD64180	
Z84C00	NEC	μPD70008	
	Sharp	LH5080	
	Toshiba	TMPZ84C00	
Z84C01	Toshiba	TMPZ84C01	
Z84C10	SGS-Thomson	Z84C10	
	Sharp	LH5083	
	Toshiba	TMPZ84C10	
Z84C20	SGS-Thomson	Z84C20	
	Sharp	LH5081	
	Toshiba	TMPZ84C20	
Z84C30	SGS-Thomson	Z84C30	
	Sharp	LH5082	
	Toshiba	TMPZ84C30	
Z84C4X	SGS-Thomson	Z84C4X	
	Sharp	LH5084	
	Toshiba	TMPZ84C4X	
Z8400	Krueger	Z80CPU	
Z84011	Toshiba	TMPZ84C011	
Z84013	Toshiba	TMPZ84C013	
Z84015	Toshiba	TMPZ84C015	
Z8410	**Krueger**	**Z80DMA**	**(3663)**
Z8420	Krueger	Z80PIO	
Z8430	**Krueger**	**Z80CTC**	**(3663)**
Z8440	Krueger	Z80SIO/0	
Z8441	Krueger	Z80SIO/1	
Z8442	Krueger	Z80SIO/2	
Z8444	Krueger	Z80SIO/9	
Z8470	**Krueger**	**Z80DART**	**(3663)**
Z85C30	AMD	AM85C30	
		Z85C30	
	VLSI Tech	VL85C30	
Z85230	AMD	AM85C230A	
Z8530	AMD	AM8530H	
Z86C11	Sharp	LU800	

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Hearst Engineering Software

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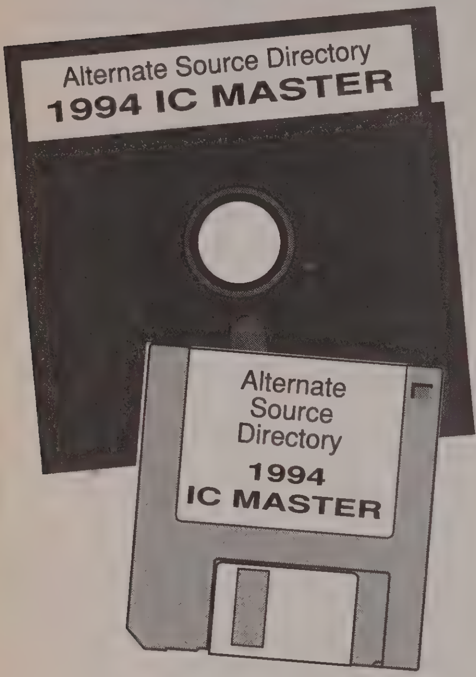
ALTERNATE SOURCE DIRECTORY



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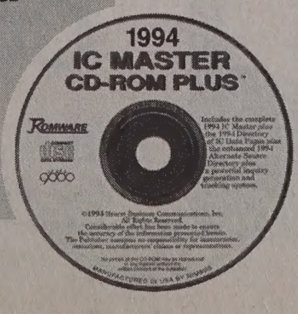
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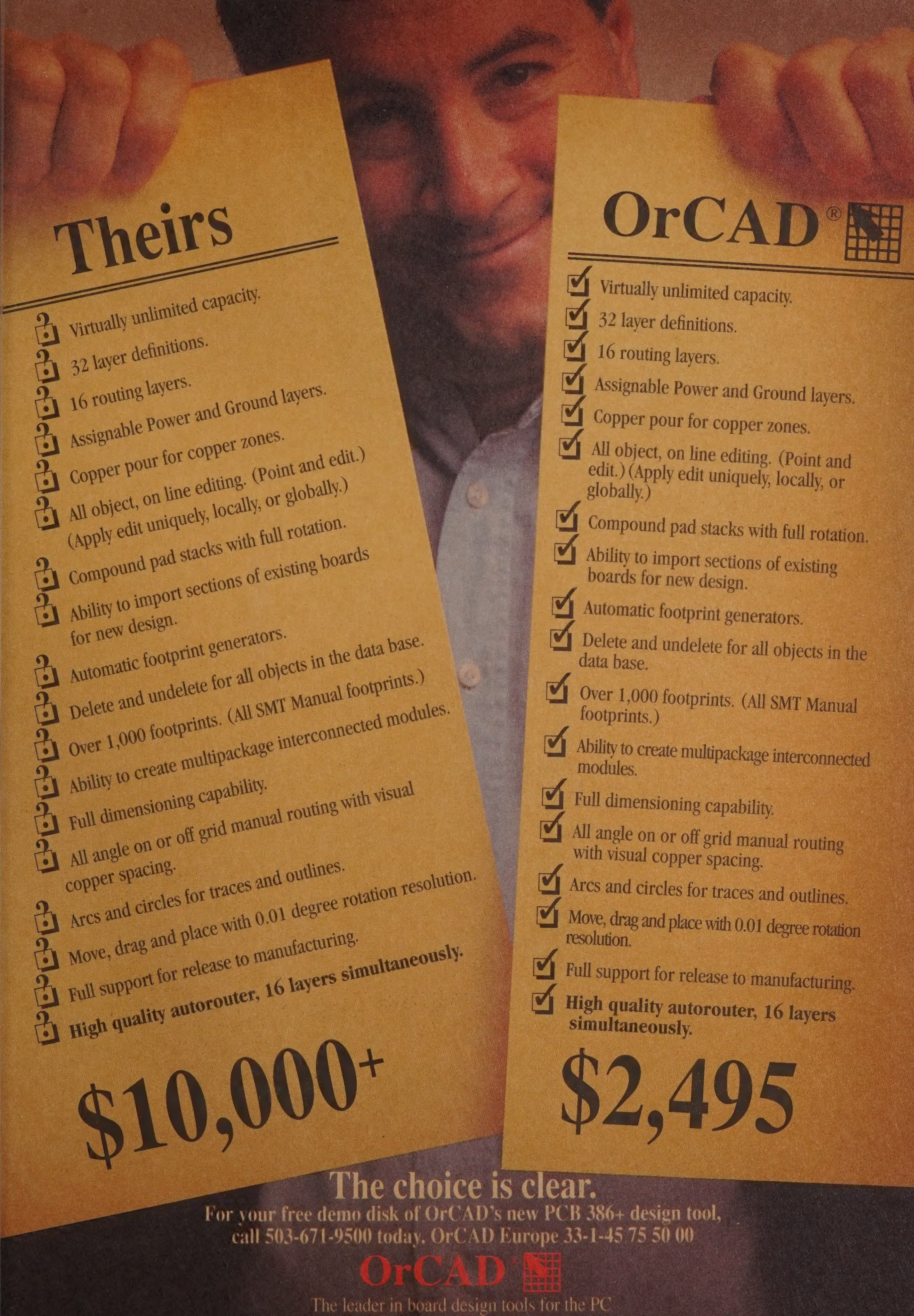

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